

97th Annual Report
2019-2020
Part-I



UNIVERSITY OF DELHI

DELHI

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UNIVERSITY OF DELHI

97th ANNUAL REPORT

PREFACE

The University of Delhi, which has a magnanimous legacy of about a century, is one of the leading universities in India. Established in 1922, the University has maintained the highest academic standards and pioneered some of the best practices in higher education. In line with its motto, *Nishtha Dhriti Satyam*, the University continues to preserve its commitment of nation building and uphold an unflinching adherence to universal human values. It gives me immense pride and pleasure to present the 97th Annual Report of the University, for the period from April 1, 2019 to March 31, 2020.

The University of Delhi is the frontrunner University in the country as indicated by the national and international rankings. It secured 11th position among the University category in the National Institutional Ranking Framework (NIRF) 2020. The University secured 3rd position in the National Rank as per the Centre for World University Rankings (CWUR) 2020-2021. The University of Delhi has been ranked as 501-510 in the QS World University Rankings 2021. The University of Delhi has been ranked as 601-800 in the Times Higher Education (THE) World University Rankings 2021, 155th in THE Asia University Rankings 2020 and 147th in The Emerging Economies University Rankings 2020.

The University of Delhi has been declared as the Institution of Eminence by Ministry of Education (MoE) and National Assessment and Accreditation Council (NAAC) has accredited it as one of the top universities in the country with a CGPA score of 3.28 with A+ grade in its first cycle.

The vast array of over 500 programmes run by the University right from African Studies to Biomedical Sciences shows the impressive expanse of knowledge creation and dissemination in the University which contributes to the nation building. The University caters to over 6.4 lakhs students through its 91 Colleges, 16 faculties, 20 Centres and 86 Departments, which makes it one of the biggest University in the country.

The University is investing its resources in digitalization at various levels, such as online admissions, computer based entrance examination (in partnership with NTA), administrative and financial processes, library resources etc. so as to ensure transparency and efficiency in the existing systems.

To augment the internet facility, the University has Robust Identity Management, Wi-Fi Roaming facility, and VPN Facility for faculty members to access e-Resources from anywhere, have been made.

Research has been a major focus area of the University. The h-index of the University has touched 192, one of the highest among the Indian universities. The departments and faculties have signed an MoU with Ministry of Education, UGC and NICSII for establishment of campus-wide Wi-Fi network. To increase accessibility to the electronic data, provision for accessible resources for visually impaired students, been granted financial assistance/grants for research projects by various funding agencies. More than fifteen faculties have ongoing research projects with grants above rupees one crore each; more than two hundred faculties have grants above rupees ten lakhs each. The University has also set up a patent fund to encourage innovations. During the year 2019-20, two patents were granted and six patent applications were published.

A large number of faculty members have been awarded with various prestigious national/international awards. Memorandum of understanding has been signed with eighteen foreign universities. The Electroprenuer Park and Incubation Centres at the University have come up with many start-ups under incubation which includes: Creating Artificial Intelligence enabled unmanned aircraft system solutions, Creating refilling vending machines to save plastic wastage, Spy Cam with Mobile Charger, and Smart Street Light among others.

The University shall continue to endeavour to achieve higher levels of excellence, be a pioneer to cater to the changing needs of the society and thus continue to constructively contribute to the nation building.



Vice-Chancellor

EDITORIAL COMMITTEE

The 97th Annual Report of the University of Delhi for the year ending 31st March, 2020 is presented here. The Report consists of two parts:

Part-I contains information about University of Delhi's academic progress including Faculties, Departments, Centres, Colleges and Finance.

Part-II carries Information and Data.

The Editorial Board, which prepared this Report, comprised the following members:

1.	Prof. Maharaj K. Pandit	Dean Academic Activities & Projects, Chairperson
2.	Registrar, University of Delhi	
3.	Prof. Yogendra Singh	Dean Research, Life Sciences
4.	Prof. Reetesh Kumar Singh	Dean, Faculty of Commerce
5.	Prof. Pamela Singla	Head, Department of Social Work
6.	Prof. Arun Jagannath	Department of Botany
7.	Prof. Sanjay Kapoor	Department of Plant Molecular Biology
8.	Prof. Vandana Roy	Department of Pharmacology
9.	Prof. Nandita Babu	Department of Psychology
10.	Prof. Shormishtha Panja	Department of English
11.	Prof. Samit Kumar Mandal	Department of Physics & Astrophysics
12.	Dr. K. P. Singh	Department of Library & Information Science
13.	Dr. Mukesh Kumar Mehlawat	Department of Operational Research
14.	Dr. Asani Bhaduri	Cluster Innovation Centre
15.	Dr. K. Ratnabali	Faculty of Law
16.	Dr. Gyan Prakash Sharma	Department of Environmental Studies
17.	Capt. Parminder Sehgal	Programme Coordinator, NSS & OIC, NCC
18.	Dr. Uma Chaudhry	Bhaskaracharya College of Applied Sciences
19.	Dr. Surinder Kaur	SGTB Khalsa College
20.	Dr. Renu Baweja	Shivaji College
21.	Dr. Subhash Kumar	Acharya Narendra Dev College
22.	Joint Registrar (Council)	

Co-opted members:

i)	Prof. Ujjwal K. Singh	Dean Research, Humanities and Social Sciences
ii)	Prof. Sevi Murugavel Sciences	Dean Research, Physical Sciences & Mathematical
iii)	Prof. Mandira Varma Basil	Vallabhbhai Patel Chest Institute
iv)	Dr. Ritu Kulshrestha	Vallabhbhai Patel Chest Institute
v)	Dr. Shikha Sachdeva	Department of Commerce
vi)	Dr. Ashish Chandra	Department of Commerce

The Report presents the highlights of activities and achievements of the University of Delhi during the year 2019-2020 (April 1, 2019 to March 31, 2020).

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OFFICERS OF THE UNIVERSITY

Chancellor

Hon'ble Muppavarapu Venkaiah Naidu

Pro-Chancellor

Justice Ranjan Gogoi up to 17.11.2019

Justice Sharad Arvind Bobde w.e.f. 18.11.2019

Vice-Chancellor

Prof. Yogesh Kumar Tyagi 10.03.2016 to 09.03.2021

Pro-Vice-Chancellor

Prof. Jitendra Paul Khurana (Acting) up to 15.11.2019

Prof. Suman Kundu (Interim) w.e.f. 16.11.2019

Prof. P.C. Joshi w.e.f. 26.06.2020

Dean of Colleges

Prof. Jitendra Paul Khurana (Interim) up to 31.10.2019

Prof. Suman Kundu (Interim) w.e.f. 12.11.2019

Director, South Delhi Campus

Prof. Jitendra Paul Khurana up to 31.10.2019

Prof. Suman Kundu w.e.f. 12.11.2019

Director, Campus of Open Learning

Prof. Chandra Shekhar Dubey (Officiating) up to 31.12.2019

Dr. Balaram Pani w.e.f. 01.01.2020

Treasurer

Mr. T. S. Kripanidhi up to 21.08.2019

Sh. Siya Saran (Interim) 22.10.2019 to 17.11.2019

Sh. P. K. Mishra w.e.f. 18.11.2019

Proctor

Prof. Neeta Sehgal

Dean Students Welfare

Prof. Rajiv Gupta

Registrar

Prof. Tarun Kumar Das up to 13.02.2020

Shri C. P. Raghav (Interim)	w.e.f. 14.02.2020
DEANS OF FACULTY	
Arts	
Prof. Mohan	up to 05.07.2019
Prof. Syed Ali Karim	w.e.f. 06.07.2019
Applied Social Science & Humanities	
Prof. V. K. Kaul	up to 26.01.2020
Ayurvedic and Unani	
Prof. Vandana Roy	w.e.f. 21.08.2019
Commerce & Business	
Prof. Reetesh Kumar Singh	
Education	
Prof. (Ms.) N. Ranganathan	up to 20.09.2019
Prof. Shobha Sinha	w.e.f. 21.09.2019
Homeopathic Medicine	
Prof. Vandana Roy	
Inter-Disciplinary and Applied Sciences	
Prof. Suman Kundu	up to 08.03.2020
Prof. Alo Nag	w.e.f. 09.03.2020
Law	
Prof. (Ms.) Ved Kumari	up to 01.09.2019
Prof. Raman Mittal	up to 13.02.2020
Prof. Vandana	w.e.f. 14.02.2020
Management Studies	
Prof. Sunita Singh Sengupta	27.05.2017 to 26.05.2020
Mathematical Sciences	
Prof. Prakash Chandra Jha	up to 17.04.2019
Prof. C.S. Lalitha	w.e.f. 04.08.2019
Medical Sciences	
Prof. Vandana Roy	up to 31.10.2019
Prof. Gopesh Mehrotra	w.e.f. 01.11.2019
Music & Fine Arts	
Prof. Deepti Omchery Bhalla	
School of Open Learning	
Prof. C.S. Dubey	up to 31.12.2019

Science

Prof. Inderjit Singh up to 08.06.2019

Prof. Sathyabhama Das Biju w.e.f. 09.06.2019

Social Sciences

Prof. Sudhir A. Shah

Technology

Prof. Sachin Maheshwari

STUDENT ENROLLMENT

In the year 2019, the University had 1,96,468 undergraduate, 2,7341 Post-graduate students, including M.Phil./Ph.D. students and 6,910 students enrolled in certificate/Diploma/PG Diploma courses. The total number of students enrolled in conventional mode is 2,30,719. Additionally, as many as 3,80,654 students are enrolled in the distance mode and 31,869 students comprise non-collegiate women students of this University. The total enrollment across conventional and distance modes in various programmes stood at 6,43,242 during 2019-20. At present, more than half of the students come from states other than National Capital Territory of Delhi.

ACHIEVEMENTS OF THE YEAR

The University of Delhi has the privilege of a venerable legacy as an institution dating back to 1922. Established by an Act of Parliament, it is guided by the statutes, ordinances, rules and regulations that are stipulated. With 16 Faculties, 86 Departments, 16 Centres, 3 Institutes and 91 Colleges, the University of Delhi is one of the largest universities in India. With close to seven lakh students in the formal and non-formal/distance education modes, the University of Delhi, in keeping with its traditions and development, has moved from strength to strength.

Progress of the University is reflected in the achievements of the University during the past one year of reporting. The topmost recognition bestowed on the University in the year 2019 was its recognition as the Institution of Eminence by the Ministry of Education. Brief overview of the numerous achievements of the year 2019-2020 (April 1, 2019 – March 31, 2020) are presented here.

FOUNDATION DAY

The University of Delhi celebrated its 97th Foundation Day on May 1, 2019 in the Convention Hall, Viceregal Lodge. The distinguished guests, who are also eminent alumni of the University included Hon'ble Ms. Justice Gita Mittal, Chief Justice, High Court of Jammu & Kashmir; Ms. Pinky Anand, Additional Solicitor General of India; Dr. Harsha Vardhana Singh, Former Deputy Director General, WTO; Shri Madhup Vyas, IAS, Secretary (Power), Delhi Government; Shri Ramji Srinivasan, Senior Advocate, Supreme Court of India; Shri Aman Sinha, Senior Advocate, Supreme Court of India. Hon'ble Vice Chancellor along with the dignitaries unfurled the Purple Flag of the University of Delhi.

The University of Delhi has been conferring various categories of awards on its Foundation Day and this year also, the University conferred upon highly deserving individuals who have rendered exemplary service to the University. The awards include Distinguished Service Awards for Retired Teachers (awarded to Prof. Anil K. Tyagi), Excellence Awards for Teachers in Service (awarded to Dr. Surjit Sarkar, Dr. Pramod Kumar Singh, Dr. Sumanjeet Singh and Dr. N Latha) and Award of Appreciation (awarded to Prof. Maharaj K. Pandit).

CONVOCATION

The University organized its 96th Annual Convocation on November 4, 2019. The University was privileged to welcome Hon'ble Shri M. Venkaiah Naidu, Vice President of India as Chief Guest. The Hon'ble Minister of Cabinet, Human Resource and Development, Government of India, Shri Ramesh Pokhriyal "Nishank" was the Guest of Honour. The event was presided over by the Vice Chancellor Prof. Yogesh K. Tyagi. Two eminent Alumni of the University, Prof. Mahesh Verma (VC, GGSIP University), and Shri Rajat Sharma (Chairman and Editor-in-Chief, India TV) were felicitated by the Chief Guest and the Vice Chancellor on this occasion.

Degrees were conferred upon 597 Ph.D. candidates and 86 D.M. /M.Ch. candidates. 305 medals and prizes were awarded to the meritorious students. A live webcast of the convocation was made on the University website.

RANKINGS OF THE UNIVERSITY

The University has maintained its position at the top in the country as per the Centre for World University Ranking (CWUR) ranking and is 11th in the National Institutional Ranking Framework. The University of Delhi is also among the top 10 Indian public educational institutions/universities and the first among Indian public universities under QS BRICS University Rankings. The h-index of the University touched 192, one of the highest among the Indian universities.

The University of Delhi has been ranked as 501-510 in the QS World University Rankings 2021. The University of Delhi has been ranked as 601-800 in the Times Higher Education (THE) World University Rankings 2021, 155th in THE Asia University Rankings 2020 and 147th in The Emerging Economies University Rankings 2020.

National Rank

Ranking	2020
National Institutional Ranking Framework (NIRF) for Universities	11 (Published for the year-2020)
Centre for World University Rankings (CWUR): National Rank	3(2020-21)

International Rank

Rankings	2020-21
Times Higher Education (THE) World University Ranking	601-800 (Published for the year-2021)
THE India Rank	6 (2021)
THE Asia University Ranking	155 (2020)
The Emerging Economies University Ranking	147 (2020)
Centre for World University Ranking	544(2020)

QS India Ranking	6 th position among Indian educational institutions and universities (2021)
QS World University Rankings	501-510 (2021)
QS Asia University Rankings	71 (2021)

QS World Subject-Wise Ranks, 2020	
Development Studies	41
Geography and Area Studies	151-200
Sociology	151-200
Economics and Econometrics	101-150
Physics and Astronomy	201-250
Chemistry	251-300
Biological Sciences	251-300
History	151-200
QS Graduate Employability Rankings	
Indicators	Published for the year-2020
Overall Scores	191-200
Alumni Outcomes	20
Employer Reputation	173
Employer-Student Connections	201+
Partnership with Employers	201+

Delhi School of Economics, University of Delhi is ranked second among 240 Institutions in India by RePEc as of October, 2020.

RECENT INITIATIVES OF THE UNIVERSITY INSTITUTION OF EMINENCE

The University of Delhi was recognized as an Institution of Eminence (IoE) by the Ministry of Education (MoE) (Ministry of Human Resource Development), Government of India, vide its communication dated 04-09-2019. The University, in its meeting of the Executive Council held on 26.02.2020 approved the draft memorandum of understanding (MoU) of the Institution of Eminence. The MoU was signed between the University of Delhi and the MoE on 27.02.2020. Based on the MoU, the MoE issued a notification on 02.03.2020 declaring the University of Delhi as an “Institution of Eminence”.

The Executive Council of the University under the IoE scheme approved the establishment of three new schools in addition to the existing two schools under Ordinance XX. At present, these are the following five schools under the IoE:

- i. Delhi School of Public Health
- ii. Delhi School of Transnational Affairs

- iii. Delhi School of Public Policy & Governance
- iv. Delhi School of Climate Change & Sustainability
- v. Delhi School of Skill Enhancement & Entrepreneurship Development.

The IoE mainly focuses on broad idea-centric themes, as well as on critical transformation of the way the University functions. The transformation encompasses the whole range of the University's affairs – academic, administrative and financial. The thrust in academics was placed on what will be taught, how it will be taught, how we will teach and on how the University markets its products to meet future needs of the society and the nation, and how it responds to the emerging global challenges. The IoE is committed to prioritizing research activities in the University and remains focused on the research programmes envisaged in the vision document and the MoU. The various Schools under the IoE have envisaged theme-based multi-disciplinary and interdisciplinary research programme with national and global relevance.

The IoE in its meetings and interactions with different stakeholders has identified various broad areas of research which are not only relevant to the societal needs, but have the potential to catapult the University into higher global rankings through high quality publications and research collaborations. The University organised the DULEAP 2020 program funded by MoE, under the Delhi School of Public Policy and Governance in the month of March 2020 in collaboration with Cambridge University, UK (March 8-20 in India).

NAAC ACCREDITATION

The University of Delhi has completed the process of assessment and accreditation in 2018, conducted by the National Assessment and Accreditation Council (NAAC) in the First Cycle. This accreditation is as per the Revised Framework of NAAC, which was implemented in 2017. The primary focus of the revised framework shifted from qualitative peer judgement only (old framework) to data based quantitative evaluation (70%) and peer judgement (30%).

The University completed its application for accreditation by submitting the Self-Study Report (SSR) to initiate this process. As part of the process, the University successfully completed the Data Verification and Validation process and Student Satisfaction Survey. NAAC peer team visited the University during October 29-30, 2018. The Peer Team carried out an in-depth verification and validation of the data submitted by the University in the Qualitative Matrices of the SSR and also interacted with Deans, Heads of Departments, administrative staff, faculty members, students and alumni to learn about the academic strength and administrative functioning of the University.

The University of Delhi was accredited with a CGPA score of 3.28 with A⁺ grade in its First Cycle, which is valid for a period of 5 years from November 30, 2018. This grade is highest among all the Central Universities which have gone through the first cycle of assessment accreditation under new framework till September, 2019.

ESTABLISHMENT OF NEW CENTRES

Centre for Disability Studies: The establishment of the Centre was approved in July, 2019 by the Executive Council. Once it is operational, it will offer Certificate, Diploma and Postgraduate degree courses and Research programmes.

EXAMINATIONS

In 2019, the Computer-based Entrance examination was conducted by the National Test Agency in partnership with the University of Delhi at 18 cities across the country including Delhi. Live-CCTV surveillance along with technical devices was undertaken to ensure fairness of entrance examinations.

The other highlights in conducting the Examination in recent years are as detailed below:

- Online fee collection system for Transcript, Duplicate Degree/Statement of Marks, Attestation of Degree/Statement of Marks, Verification of Degree/Statement of Marks, Revaluation/Rechecking / Copy of evaluated answer script.
- Dedicated, comprehensive and user-friendly online portal of the Examination Wing providing easy access to date sheets, results, notifications, services and forms
- Online portal for receiving marks of theory examinations, internal assessment and practical papers. Web-generated statement of marks
- Processing of results for all undergraduate courses and most of postgraduate courses through result processing software
- Online application for Advance Degree/Duplicate Degree/Attestation of Degree/Special Certificate
- Online Examination Hall Tickets and Online Admission Tickets

EQUALITY AND MODERNIZATION IN DISTANCE LEARNING

Online admissions are being conducted for all undergraduate and postgraduate programmes in SOL & NCWEB.

- A self-designed LMS Dashboard for individual students has been created.
- All the material including Self Learning Material is being provided online.
- Since 2019 all undergraduate and postgraduate programmes are being offered in semester mode with the updated LOCF based revised CBCS syllabus which are at par with regular College curriculum.
- Flipped-classroom technology was developed in SOL considering importance to virtual/audio-visual teaching-learning and to provide open access to all text to speech contents/study material, audio lectures and video lectures. Earlier no Audio/Video lectures, E-content were available to SOL students.
- New Digital Library Online portal is opened for students with many online books, segregated Open Education Resources, in- house E-content and Videos, online reservation of books, etc.
- The University of Delhi is one of the first three Universities which has received Letter of Intent for offering five undergraduate programmes through Online mode from January 2020 session.
- Presently, 20 short term professional courses are offered to the students from SOL and NCWEB. Here, the students are being nurtured through practical vocational training with relevant industry interface. These courses are in the fields of Retail, Telecom, Hospitality, IT, Media, Medical Transcription, Insurance, Automotive, Travel and Tourism, Soft skills, etc.

ADMISSIONS

To ensure fairness, transparency and efficiency in admissions, the University has adopted and implemented policies towards streamlining the student-friendly, glitch-free, online, a centralized online admission process for undergraduate, postgraduate, M.Phil. and Ph.D. since 2016 based on the theme “Go-Green, Go-Digital and Minimum Human intervention”.

ADMINISTRATIVE AND FINANCIAL PROCESS

The following online systems are in place to ensure transparency and commitment to implement policy of “Zero Tolerance against Corruption” in all processes:

- Student Grievance Redressal System
- Hostel Accommodation
- Central Placement Cell for Students and Companies
- Scholarship Disbursement
- Attendance Management System
- Time-Table Management System
- Profile Management of Faculty Members and Non-Teaching Staff
- House Allotment
- Medical Bill Reimbursement
- Confirmation of Services of Faculty
- Proforma for Teachers' Representation on College GBs
- Research Project Management
- Bill processing and Tracking
- E- Procurement and GeM
- University Information Management System
- IQAC Proforma
- Inventory Management
- Online Fees Collection Portal
- Initiation of Samarth ERP for DU

LIBRARY SYSTEM

Besides improving e-ShodhSindhu, J-Gate@e-ShodhSindhu, Internet Access Facility and Electronic Databases, the following digital initiatives are introduced in the DU library system:

- Accessible resources for Visually Impaired
- Digital Collection of Ph.D. theses
- Plagiarism Detection Software (PDS) - TURNITIN; URKUND through INFLIBNET

CAMPUS CONNECT PROJECT AND VALUE-ADDED SERVICES

The University has signed an MoU with MoE (MHRD), UGC and NICS I for establishment of campus-wide Wi-Fi network. This project would augment the existing Wi-Fi connectivity in more than 150 departments/academic units/ centers and administrative units and about 20 hostels with concurrent user base of approximately 30,000 users. The following initiatives are in place:

- Expanding Wi-Fi infrastructure across the campuses
- Deployment of futuristic network architecture with N+1 redundancy with 40 Gigbackplane
- Redesigned campus topology in Ring architecture
- Robust Identity Management
- Wi-Fi Roaming facility

- Global Wi-Fi Roaming facility through EDUROAM for Faculty members and Research Scholars
- NKN connectivity with 10 G
- MPLS VPN connectivity to all the colleges
- Robust ICT network spanning over campus and colleges
- Integration of EDUROAM to facilitate Faculty members and Research Scholars
- In-house Identity Management Services
- Open -Source Technology Advocacy and Integration
- Integration with INFLIBNET resources
- VPN Facility for Faculty members to access e-Resources from home / anywhere

LECTURE SERIES

Special Lecture Samvad - His Excellency Shri Michael Ashwin Satyendra Adhin, September 19, 2019

A special lecture was organised by Law Centre-II, University of Delhi as a part of its lecture series 'Samvad 2019'. The lecture was delivered by His Excellency Shri Michael Ashwin Satyendra Adhin, Vice-President of Suriname on Vedic Science, Law and the Society on 19 September, 2019 at Vice-Regal Lodge, University of Delhi. Prof. Yogesh K. Tyagi, Vice Chancellor, University of Delhi welcomed His Excellency Shri Ashwin Adhin, Vice President of Suriname. The event was attended by a delegation from Suriname, academicians and students from different parts of the country.

Ambassadorial Lecture Series

The Ambassador of Federal Republic of Germany to India, His Excellency Walter J. Lindner spoke on 'Public Diplomacy Leaving the Cage' followed by an interaction with the students at the University of Delhi on Wednesday, 25th September, 2019 at 11.00 a.m. Professor Yogesh K. Tyagi, Vice Chancellor, University of Delhi presided over the function. The German Ambassador addressed a distinguished gathering of academicians, research scholars and students.

In the speech, His Excellency Walter J. Linder spoke about the need for modern diplomacy that can reach beyond traditional audience of political leaders and the privileged. He underlined the climate emergency that the planet is facing and the role of students in bringing this emergency to the attention of the decision makers. The Ambassador spoke about the coming together of East and West in tackling the global challenges of our time and encouraged the students to use their talent and passion in their respective disciplines in order to find creative solutions.

The First Arun Jaitley Memorial Lecture

A lecture series has been instituted by the University of Delhi in the memory of its eminent alumnus, Late Shri Arun Jaitley, former Finance Minister of India. Late Shri Jaitley's contribution to the nation as a lawyer and a Cabinet Minister has been immense. This lecture series has been instituted to honor his memory and legacy. The First Arun Jaitley Memorial Lecture was delivered by Shri M. Venkaiah Naidu, Hon'ble Vice President of India, on Tuesday, 29th October, 2019 at 11.00 a.m. in the Convention Hall, Viceregal Lodge, University of Delhi.

Delivering the Memorial Lecture, Hon'ble Vice President of India, Shri M. Venkaiah Naidu, highlighted the strong ties that Late Shri Jaitley shared with the University of Delhi. As an alumnus of Faculty of Law and Shri Ram College of Commerce, University of Delhi's role in Jaitley's formative years cannot be ignored, the Hon'ble Vice President highlighted. Shri Naidu concluded with Dr. B. R. Ambedkar's remark, that ultimately, it is the people who are responsible for the democratic functioning of the constitution. It is

the people who are ultimately responsible for electing worthy leaders. He observed that the best way of upholding the spirit of Parliamentary democracy is to strengthen its character, caliber, capacity and conduct.

Cultural Flavours of India Series, *Meeras-e-Kashmir*

The University of Delhi organised the first chapter of a series of cultural events, "*Meeras-e-Kashmir*" under the banner of "Cultural Flavours of India" showcasing the diverse cultural heritage of India. The event "*Meeras-e-Kashmir*" – the heritage of Kashmir - was held at Sir Shankar Lal Concert Hall of the University on 18th February 2020 and showcased the spirit, flavour and essence of Kashmiri culture.

The event was graced by Dr. Karan Singh, an eminent statesman, philanthropist and poet; Prof. Amitabh Mattoo, Professor of Disarmament Studies at the Centre for International Politics, Organisation and Disarmament at the Jawaharlal Nehru University; Prof. Maharaj K. Pandit, a distinguished academician and Professor at the Department of Environmental Studies of the University; Pt. Bhajan Sopori, an internationally renowned exponent of Santoor. "*Meeras-e-Kashmir*" showcased the soulful musical tradition of Kashmir. On this auspicious occasion, Pt. Bhajan Sopori enthralled the audience with his Santoor recital. His performance was followed by the rendition of Kashmiri folk songs by Dr. Sapna Kachroo, Shri Waseem Ahmed Bhat and Shri Mukesh Kumar. The cultural and musical programme was followed by serving of delicious Kashmiri cuisine to the guests. The event was attended by a large number of students of the University from all disciplines, especially those belonging to Kashmir, faculty members, officials and other invited guests. An award of Rs. One lakh was announced for those academics and researchers from the University of Delhi who publish articles on Kashmiri culture and music in quality Scopus indexed journals that bring out extra ordinary ideas for the overall development of Kashmir.

RESEARCH HIGHLIGHTS

Extramural Research Grants

The University has attracted extramural research grants from almost every national funding agency and many international funding agencies like DBT, DST, IFICAR, UGC, MOEF, IAEA, ICAR, DRDO, CSIR, MOES, ICMR, MNRE, World Bank, TERI, Indo-USSTF, GAIL, IUAC, ICSSR, MCIT, NUST, University of Norway, University of Turkey, ISRO, SDTT, Vigyan Prasara, SERB-DST, Japan Foundation, SEWA-THDC, MOSJ&E, DAE, MWCD, INSA, TISS-DU, Leverhulme Trust UK, ICHR etc.

Name of the Departments with Financial Assistance under various schemes of UGC (SAP) for the year 2019-20:

Departmental Research Support (DRS)

- Botany
- Biochemistry
- Dr. B.R. Ambedkar Centre for Bio-Medical Research
- Modern Indian Languages and Literary Studies
- Psychology

Department of Special Assistance (DSA)

- English

Centre for Advanced Study (CAS)

- Buddhist Studies

- Chemistry
- Economics
- History
- Linguistics
- Political Science
- Physics and Astrophysics
- Zoology
- Geology

Faculty Members with Grants above Rupees One Crore:

During the reporting period, more than 15 faculty members of the University have Ongoing Research Projects of the value of more than Rupees One Crore each.

During the reporting period, more than 200 Faculty Members of the University have ongoing projects with grants above Rupees Ten Lakhs each.

ELECTROPRENEUR PARK AND INCUBATION CENTRES AT THE UNIVERSITY

A. Electropreneur Park

Electropreneur Park has been setup under the aegis of the Ministry of Electronics and Information Technology, Software Technology Park of India (STPI) and India Electronics and Semiconductor Association (IESA) to support start-ups in electronic system design and manufacturing (ESDM). A holistic eco-system has been established to promote R&D, innovation, entrepreneurship in the ESDM sector in India, to enable creation of Intellectual Property, to provide assistance during prototyping, development and commercialization.

Achievements of the Electropreneur Park (Since April 2016)

- 39 start-ups beneficiaries, 24 incubated, 7 pre-incubated
- 12 start-ups, 5 start-up exits from pre-incubation
- 10 IP patents filed and 9 provisional patents filed
- 21 new products created
- 46.66 Crore INR revenue generated by start-ups
- 11 Crore INR of external funding to start-ups

Recent on-boarded start-up under incubation at Electropreneur Park in 2019-20:

Startup	Product
Amit Kumar	Developing a low cost IoT Based Mopping Robot
Aiotize	Creating AI enabled unmanned aircraft system solutions
Refill station	Creating refilling vending machines to save plastic wastage

Rakshit Stija Developing IOT based agricultural storage management system

E2EM* Developing a portable E-Moped

B. Technology Business Incubator

The Ministry of Micro, Small Medium Enterprise (MoMSME) has supported the Technology Business Incubator (TBI) at the Cluster Innovation Centre of the University (DUCIC, TBI) under the scheme "Support for Entrepreneurial and Managerial Development of SMEs through Incubators". TBI has been set up with the objective to facilitating the nurture of ideas by promoting emerging technological and knowledge based innovative ventures.

C. Design Innovation Centre at University of Delhi with funding from the Ministry of Education (formerly MHRD)

Design-centred innovation is a force multiplier that can help the country move up the value chain, making the Indian industry globally competitive. In this context, the Ministry of Education proposed the launch of a national initiative for design innovation in the Twelfth Plan. Under this initiative, 20 new Design Innovation Centers (DIC), one Open Design School (ODS), and a National Design Innovation Network (NDIN) linking all these schools together were set up. The University of Delhi was one of the five institutions that were granted the DIC project in the first round on a Hub and Spoke Model, with the following partnerships: University of Delhi (Hub); Jamia Millia Islamia, New Delhi (Spoke 1); Islamic University of Science and Technology, J&K (Spoke 2); NIFT, New Delhi (Spoke 3).

In the year 2019-20, various online courses were offered by DIC, including "Design Innovation and Startup," "Design Thinking," "2D & 3D Product Designing," "Branding Basics." DIC has also conducted various workshops, including "SOLIDWORKS," and "Internet of Things." Various innovative products are in the final stage at the DIC, including "Indian Paper Puppets DIY Kit," "Automated Drones," "Spy Cam with Mobile Charger," "Smart Street Light," "Anti-camera reflective frame."

IPR Cell and Patent Fund

The University has guidelines for patent filing and collaborative research. A patent fund was set up for the University faculties. During the year 2019-20, two patents were granted and six patent applications were published.

FACULTY AWARDS/HONOURS

Prof. P.C. Joshi, Department of **Anthropology** was awarded with S.C. Dube Oration Award 2020 at the INCAA annual Meet Kolkata, February 22, 2020.

Prof. Maharaj K. Pandit, Department of **Environmental Studies**, was awarded Ngee Ann Kongsi Distinguished Visiting Professorship by National University of Singapore, Singapore, 2019.

Prof. Tanuja Nesari, Director **All India Institute of Ayurveda**, was awarded 'Harihar Mukherjee Memorial Award' for outstanding service in the field of Ayurveda and Ethanopharmacology at 7th International Congress of Society for Ethnopharmacology, India.

Dr. R. K. Yadav **All India Institute of Ayurveda**, honoured with Excellence award by Ayushyamritam Society for services towards Ayurveda.

Prof. K. Natarajan, **Dr. B. R. Ambedkar Centre for Biomedical Research** was honoured with ICGEB Ambassador (International Centre for Genetic Engineering and Biotechnology).

Prof. Renu Deswal, Department of **Botany** was awarded with Springer-PSI Award for holding the second highest number of publications in Journal of Proteins and Proteomics in the past ten years.

Prof. Rupam Kapoor, Department of **Botany** was elected as Vice President of "Mycological Society of India".

Prof. Kamala Sankaran, **Campus Law Centre**, was appointed Vice Chancellor, Tamil Nadu National Law University from December 30, 2016 - December 29, 2019.

Prof. Akhilesh K. Verma Department of **Chemistry** received Dr. A.P.J. Abdul Kalam National Dedication award 2020.

Dr. P. Venkatesu, Department of **Chemistry** received the Prof. S. P. Hiremath Award (December, 2019) from the Indian Council of Chemists, India.

Dr. Gopalaiah Kovuru, Department of **Chemistry** received the ISCAS Dr. Lakshmi Endowment Medal by the Indian Association of Solid State Chemists and Allied Scientists (December 20, 2019).

Dr. Unita Sachidanand, Department of **East Asian Studies**, was appointed member of the Council of the EPIP International Education Alliance on 10th May, 2019.

Prof. Pami Dua, **Department of Economics**, was appointed Member, Monetary Policy Committee, Reserve Bank of India, 2016 to 2020.

Prof. Shreekanth Gupta, **Department of Economics**, was unanimously elected President, Indian Society for Ecological Economics, 2020-2022.

Prof. Sunil Kanwar, Department of **Economics**, President, Asia-Pacific Innovation Conference Board, Dec 2018 – Oct 2019;

Prof. Anil K. Aneja, Department of **English**, received Rustom Merwanji Alpaiwalla Memorial Award 2020 of National Association for the Blind (India).

Prof. Anil K. Aneja, Department of **English**, State Award in the category 'Best Individual Working in the Field of Social Work' by the Govt. of NCT of Delhi.

Dr. Surajit Sarkar, Department of **Genetics**, selected for the Delhi University Excellence Award for in-service teacher (45 years or below), 2019.

Prof. S.C. Rai, Department of **Geography**, received "*Life Time Achievement Award, 2019*", from Land Use Management (CLUMA), Hyderabad, Telangana, 2019.

Prof. S.C. Rai, Department of **Geography**, elected Vice President, The Asian Geographical Association, Beijing, China, (w.e.f. August 2019-2023).

Dr. Anindita Datta Department of **Geography**, elected Chairperson, IGU Commission on Gender and Geography (w.e.f 2020-2024).

Prof. G V R Prasad Department of **Geology**: National Award in Geosciences and Technology, Ministry of Earth Sciences, Govt. of India, New Delhi

Dr. Vimal Singh Department of **Geology**: Elected Fellow, Geological Society of India.

Prof. Shobha Satyanath, Department of **Linguistics** was elected Vice President, Linguistics Society of India.

Prof. Chander Shekhar, Department of **Persian** was awarded the prestigious "Sauhard Samman" for 2018.

Prof. Bilqis Fatima Husaini, Department of **Persian**, was awarded Ghalib Award 2019 by Ghalib Institute, New Delhi, 2019.

Professor Paramjit Khurana, Department of **Plant Molecular Biology**, Prof. Archana Sharma Memorial Lecture Award (2019) by The National Academy of Sciences, India (NASI).

Professor Paramjit Khurana, Department of **Plant Molecular Biology**, Elected General Secretary (*Outstation*), The National Academy of Sciences, Allahabad, India, (2018-2019).

Dr. Nasreen Chowdhary Department of **Political Science** was elected Vice President (2016-2018) and (2018-2021) International Association for the Study of Forced Migration.

Prof. Navnita C. Behera, Department of **Political Science** was elected Vice-President, International Studies Association (2019-2020).

Prof. Ujjwal Kumar Singh, Department of **Political Science**, 1 June 2019 to 26 June 2019 was Visiting Professor at the Institute of Political Science and Sociology, University of Wuerzburg, Germany.

Prof. Brajesh Chandra Choudhary, Department of **Physics and Astrophysics** was appointed Spokesperson, India-CMS Collaboration for 2019 –2024.

Prof. Patrick Das Gupta, Department of **Physics and Astrophysics**, was elected President, Indian Association of General Relativity and Gravitation (IAGRG) – 2020 onwards.

Prof. Vinay Gupta, Department of **Physics and Astrophysics** was elected Vice Chairman, Semiconductor Society of India (SSI), 2015 – 2019.

Prof. H.P. Singh, Department of **Physics and Astrophysics** was appointed Chair, Time Allocation Committee, Indian Institute of Astrophysics, Bengaluru, 2018 onwards.

Dr. Meera, Dwivedi, Department of **Sanskrit**, was awarded the Vividhapuraskāra-sāhitya, (2019) on her book –“ Sanskrit Nāṭya: Abhinaya evam paṭa kathā lekhaṇa” by U.P Sanskrit Sansthan, Lucknow.

Dr. Neelakshi Suryanarayan, Department of **Slavonic and Finno Ugrian Studies**, was Conferred Medal of Pushkin by the President of the Russian Federation, Mr. Vladimir Putin 2019.

FACULTY AWARDS/HONOURS IN MEDICAL SCIENCES

Dr Surbhi Wadhwa, Department of **Anatomy (MAMC)**, received the Bishan Swaroop Mathur Young Scientist Memorial Award for 2019.

Dr Dinesh Kumar, Department of **Anatomy (MAMC)**, was awarded the FAIMER fellowship in 2019.

Dr. Renu Chauhan, Department of **Anatomy (UCMS)**, was awarded “Bharat Chikitsa Ratan award” on Doctor’s day in June’19.

Dr. Renu Chauhan, Department of **Anatomy (UCMS)**, received IMA National President's Appreciation award on World Heart day.

Dr. D K Tempe, Department of **Anaesthesiology (GIPMER)**, was appointed Chancellor of Indian College of Cardiac Anaesthesia.

Dr. A H Choudhuri, Department of **Anaesthesiology (GIPMER)**, received Presidential Citation for outstanding contribution to critical care medicine of Indian Society of Critical Care Medicine (ISCCM) in 2020.

Dr. Ritu Singh, Department of **Biochemistry (LHMC)** was awarded Fellowship of Indian Society for Atherosclerosis research, November, 2019.

Dr. Vishwajeet Rohil, Department of **Biochemistry (VPCI)**, was felicitated with "Delhi Medical Association (DMA) Distinguished Service Award" on 18th Aug. 2019.

Dr. Sanjay Tyagi, Department of **Cardiology (GBPIPMER)**, was awarded Fellowship of Royal College of Physicians (FRCP), Edinburg UK.

Dr. Vimal Mehta, Department of **Cardiology (GBPIPMER)**, awarded Fellowship of American College of Cardiology (FACC) in 2020

Dr. Mohit Gupta, Department of **Cardiology (GBPIPMER)**, was awarded Fellowship of Royal College of Physicians (FECP), Edinburg UK.

Dr. Rashmi Sarkar, Department of **Dermatology (MAMC)**, awarded the prestigious Dr. B. M. Ambady oration from IADVL at DERMACON International 2019 in Bengaluru.

Dr. Vineet Relhan, Department of **Dermatology (MAMC)**, received Dr. K.C. Kandhari Award, 2019.

Dr. Chander Grover, Department of **DERMATOLOGY & STD (UCMS)** received "Young Cutaneous Surgeon Award"- 2019.

Dr. Amitesh Agarwal, Department of **MEDICINE (UCMS)**, awarded Fellowship of Indian Society of Hypertension in 2019.

Dr. Amitesh Agarwal, Department of **MEDICINE (UCMS)**, awarded Fellowship of Geriatric Society of India in 2019.

Dr. Rakhi Malhotra, Department of **General Medicine** Army Hospital (R&R) was awarded the AV Gandhi award for best research work in Endocrinology by ESI in Mar 2019.

Dr. Uday Y, Department of **General Medicine** Army Hospital (R&R) received Dr. E Merck Award by the Association of Physicians of India – 2020.

Dr Uday Y, Department of **General Medicine** Army Hospital (R&R) received Dr. D.P. Basu Award by the Association of Physicians of India – 2019.

Dr. C.P. Baveja, Department of **Microbiology (MAMC)** was awarded State Doctors Award by Government of NCT of Delhi in 2019.

Dr. Anuradha Chowdhary, Department of **Microbiology (VPCI)** was elected Fellow, National Academy of Medical Sciences (FAMS), Delhi, India, 2019.

Dr. Zia Chaudhuri, Department of **Ophthalmology (LHMC)**, was awarded the Fellowship of the National Academy of Medical Sciences in (FAMS) in October 2019.

Dr Shyama Jain, Department of **Pathology (MAMC)**, received 'DMA-Vishisht Chikitsa Ratna, MAMC, New Delhi, 2019.

Dr. Raj Kumar, Department of **Pulmonary Medicine (VPCI)**, received 7th Foundation Day Lecture Award of The Indian College of Allergy Asthma, and Applied Immunology, New Delhi.

Dr. K. Singh and Dr. A.K. Rathi, Department of **Radiotherapy (MAMC)** were felicitated with lifetime achievement awards by Association of Radiation Oncologists of India (AROI), North zone.

Dr. Anjali Prakash, Department of **Radiodiagnosis (MAMC)**, was awarded the Academic Excellence award by Delhi state chapter of IRIA.

Dr. Sapna Singh, Department of **Radiodiagnosis (MAMC)**, was awarded the President's Appreciation Award of the Delhi State Chapter of IRIA in Feb 2020.

Dr. Jyoti Kumar, Department of **Radiodiagnosis (MAMC)**, was awarded Dr. D.C. Agarwal Oration in National IRIA Conference, held at Ahmedabad, in January 2020

SEMINARS/CONFERENCES/WORKSHOPS ORGANISED

(Selected list is provided below. Complete list is given under Departments/Centres)

Department of **Anatomy (MAMC)** organised a workshop on 'Preservation Techniques of Human Body. Chemical and Digital (3 D Printing) Preservation and Museology' on 20th-21st December 2019.

Department of **Anthropology** organised a workshop/training on "Anthropology and Yoga" to commemorate International Yoga Day on 21st June, 2019 in Department of Anthropology, University of Delhi.

Department of **Anthropology** organised a Panel Discussion on "Cultural Diversity of India" on 29th July 2019.

Department of **Anthropology** organised an International Conference on "*Anthropology of Food and Health*" held from 27th to 29th February 2020 in University of Delhi.

Department of **Arabic** organised a two day National Seminar on the topic "Arabic Journalism in India" on 4-5 March, 2020.

All India Institute of Ayurveda organised "JIVANEYAM -2020 National Seminar on Integrative Oncology" on 12th and 13th Feb, 2020 by Center for Integrative Oncology, AIIA, sponsored by Information Education and Communication (IEC) Deptt. of MoAYUSH, Govt of India, New Delhi

All India Institute of Ayurveda organised Mecon-Ganga workshop on TCM – 22.10.2019. MCG workshop on Traditional and Complementary Medicine (TCM) was jointly organised by MoAYUSH and AIIA on 22nd October, 2019.

Department of **Biochemistry** organised an invited talk by Prof. Andreas Herrmann, Humboldt University, Berlin, Germany, on "Tracking Bundling of Influenza A Virus Genome Segments in Infected Host Cells at Single Molecule Level", 10th February 2020.

Department of **Biochemistry** organised International Conference on "Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases" jointly with Department of Biochemistry of Shivaji College at Shivaji College Auditorium, Raja Garden, Delhi, February 12th -13th, 2020

Department of **Biochemistry (GIPMER)** organised symposium on 'Biomarkers for the management of critical illness: An Update' on 20th December 2019.

Department of **Biochemistry (LHMC)** organised Workshop on infection control in clinical biochemistry lab. 1st-2nd Apr under biochemistry under Kayakalp programme under aegis of swachhata pakhwara 1st-15th Apr Faculty member- Dr. Anju Jain Dr. Smita Tripathi Dr. Rajeev Goyal

Department of **Biophysics** organised National Symposium on Recent Trends, Development and Methodologies in Biophysics. 7th Sept 2019

Department of **Botany** organised 3rd National conference of Seabuckthorn Association of India "Seabuckthorn: Translating Research into Sustainable Utilization and Conservation"; December 19-20, 2019 at Department of Botany, Under Delhi University Botanical Society, & Seabuckthorn Association of India, India.

Department of **Botany** organised 4th Plant Proteomics Workshop on Seabuckthorn - Genomics, Proteomics & Metabolomics and beyond"; 23rd – 27th December, 2019 at Department of Botany, University of Delhi.

Department of **Buddhist Studies** organised three one-day seminars on "Art of Satipatthana" in the on September 20, 2019, October 18, 2019 and January 24, 2020. Ven. Buddhapāla Mahāthera delivered lecture on the theoretical and practical aspects of "Insight Meditation" on the basis of the Majjhima Nikāya.

Department of **Buddhist Studies** organised International Workshop on "Art of Satipatthana (Vipassana)" based on the Majjhima Nikaya from January 11, 2020 to January 17, 2020 at Bodh Gaya, Bihar in collaboration with Bodh Gaya International Sati School (Mulasangha), Bodh Gaya.

Campus Law Centre in the memory of Late Sh. K. K. Luthra, Senior Advocate, organised the prestigious Moot Court Competition (16th Edition of K. K. Luthra Memorial Moot Court Competition) from 17th-19th January, 2020 in Campus Law Centre.

Department of **Commerce** organised the 7th Annual International Commerce Conference on 17-18 January, 2020 and the theme of the conference was "Organizational Realities: Changing Paradigm of HR".

Department of **Chemistry** organised a seminar by Professor Nicolay V. Tsarevsky, Professor, Southern Methodist University, Dallas, USA, Title: "Functional Branched Polymers: Synthesis and Applications" Date: 09th July 2019.

Prof. Snorri Thor, Sigurdsson, Department of Chemistry, University of Iceland delivered Dr. A.R. Kidwai Oration Lecture on 30th December 2019 at Department of **Chemistry**, University of Delhi.

Department of **Chemistry** organised Indo-German Workshop on Multivalent Macromolecular Architectures for Biomedical Applications' 5-6 April - 2019, DST Funding agency.

Department of **Community Medicine (LHMC)** organised the 4th International Conference of Occupational and Environmental Health (ICOEH) from 15-17th February 2019 held at Lady Hardinge Medical College, New Delhi.

A CME on 'Cutaneous Tuberculosis – A Multidisciplinary Approach' was organised in the Department of **Dermatology** along with the Department of Chest TB (LNH) on 28th July 2019.

Department of **East Asian Studies** conducted an interaction with Delegation from JICA to promote Japanese Language in India on 22.05.2019.

Department of **Economics** organised The Annual Winter School was held from December 10-13, 2019 at the Department of Economics in collaboration with The Econometric Society with financial support from EXIM Bank.

Department of **Education** organised Six-day National workshop-cum-seminar on 'Pursuing a Philosophical Study in Education', held at the Department of Education, University of Delhi, Concluded on February 15, 2020 under the aegis of IASE, University of Delhi.

Department of **Education** organised Three Day National Seminar cum Workshop on Innovations in Science and Mathematics Education on 15th, 22th and 29th February 2020 under the aegis of IASE, University of Delhi.

Department of **Electronic Science** in collaboration with IEEE EDS Delhi Chapter jointly organised IEEE EDS Distinguished Lecture Talk on "Computational Reliability – A paradigm shift in product reliability assurance" on January 28, 2020 at University of Delhi South Campus.

Department of **Finance and Business Economics**, organised its 32nd Annual Convention on "Innovations and Challenges in Financial Services" on September 21, 2019.

Department of **Geography** organised a conference titled G 19: Rethinking Knowledge Regimes: Solidarities and Contestations on October 7-8, 2019.

Department of **Geology** organised One day workshop on 'Sustainable Geoscience' on 29th February 2020 at Department of Geology, University of Delhi, in collaboration with UNESCO, IUGS, and IGCP (organised by Dr. Vimal Singh)

Department of **Geology** organised Workshop on Sequence stratigraphy by Prof. Nicholas Christie-Blick, "Unresolved issues in Seismic and sequence stratigraphy"; February 17 to 18, 2020.

Department of **Germanic and Romance Studies** organised International Conference "Blue and Green Humanities in Hispanic Literature" - "Ecología y medioambiente en las literaturas hispánicas" organised by Department of GRS (Delhi University), GRISO (University of Navarra) and Centre for Spanish, Portuguese, Italian and Latin American Studies (JNU) at Instituto Cervantes, New Delhi, 25-26 April 2019.

Department of **Germanic and Romance Studies**, Annual International Seminar on the theme, "Unravelling lives: literary encounters and life-writing", 5 – 7 March 2020.

Department of **Hindi** organised Lecture Cum-discussion on Dr. P.N. Singh Literature 'Dehri Ka Diya' on 06.11.2019.

Department of **History** organised Workshop on Incorporating the Material and the Textual: Exploring inclusive narratives of Indian Religious Cultures by Prof. Richard Davis, Bard College on 7 February 2019.

Law Centre - I organised a one-day ‘National Seminar on Laws of Environment: Administration & Development (LEAD) 2020’ on 12 February 2020.

Law Centre-II organised International Conference on Mediation in collaboration with MCPC, Supreme Court of India on April 6-7, 2019.

Faculty of **Management Studies** organised an International Conference on Empowering Methodologies in Indian Management Research during December 16-17, 2019 as a part of UKIERI –UGC Research Project.

Department of **Modern Indian Languages and Literary Studies** organised a Two-day National Workshop on “Multilingual Translation of Kazi Nazrul Islam’s Poetry,” on 05th & 06th March, 2020 in collaboration with Nazrul Centre for Social and Cultural Studies, Kazi Nazrul University, Asansol, West Bengal.

Department of **Modern Indian Languages and Literary Studies** organised a Two-day National Seminar on “Text and Sexuality” under UGC-DRS Phase III programme in the department on 2nd & 3rd March, 2020.

Department of **Music** organised The Malhar Utsav 2019 -An annual two day festival of Indian classical music on 29 August – 30 August, 2019.

Department of **Persian** organised Two-Day National Seminar on the topic “Persian Historiography in Later Mughals” on 13 and 14 February 2020.

Department of **Persian** organised Two-Day International Seminar on the topic “Aesthetics in Indo–Persian Literature” on 2 and 3 March 2020.

Department of **Philosophy** organised International Seminar on Gender and Freedom in collaboration with Miranda House, University of Delhi, New Delhi on 21st & 22nd February 2020.

Department of **Plant Molecular Biology**, organised DPMB Annual Symposium from March 14 to March 15, 2019 Professor Paramjit Khurana,

Department of **Political Science** organised UGC CAS - SAP Workshop and Colloquium “Researching and Documenting Vulnerable Communities: Addressing the Gaps in Knowledge and Praxis”, 29 February 2020.

Department of **Punjabi**, organised Two days National seminar on Amrita Pritam: kalam de Naksh, 11th and 12th April, 2019.

Department of **Mathematics** organised a lecture by Prof. Oscar Blasco, University of Valencia, Spain entitled “*Matricial Harmonic Analysis for matrices with operator entries*” on Monday, December 9, 2019.

Department of **Mathematics** organised a lecture by Prof. Apoorva Khare, Indian Institute of Science, Bangalore entitled “*Groups with norms: A PolyMath adventure*” on October 17, 2019.

Department of **Mathematics** organised National Centre for Mathematics Workshop (NCMW) on “Sheaf Theory, Sheaf Cohomology and Spectral Sequences” during November 18-30, 2019.

Department of **Operational Research** organised Data Science Symposium at University of Delhi, Delhi, September 28, 2019.

Department of **Operational Research** organised Analytics Colloquy at University of Delhi, Delhi, November 09, 2019.

Department of **Sanskrit** University of Delhi organised National Seminar on *Vedic Age in the light of Recent Researches* on 24 September 2019.

Department of **Slavonic and Finno Ugrian Studies** conducted workshop on “Breast Cancer Awareness” on the topics “Race to reign in Cancer” and “Out Cancer Foundation” 31st October, 2019.

The Department of **Sociology** organised ICSSR and HBS Supported National Seminar on The Environment as Metanarrative, with Sudha Vasan as the Lead Organizer from 5th to 6th March 2020

The Department of **Social Work** collaborated with National Skill Development Corporation (NSDC) and Inclusive Persons with Disabilities Entrepreneur Association (IDEA) and organised *Divyakaushal* 2019 – National Job Fair and Ability Expo exclusively for Persons with Disabilities (PWD). The fair was organised on 2nd-3rd December 2019 at Bhaskaracharya College of Applied Sciences, Dwarka, New Delhi.

Department of **Social Work** organised Refresher Course in Social Work and Social Sciences under the Centre for Professional Development in Higher Education, (CPDHE), UGC-HRDC, University of Delhi, from 9th July to 22nd July 2019.

Department of **Statistics** organised Workshop on “Data Science and Programming with Python during January 13-15, 2020.

Department of **Statistics** organised Invited talk by Dr. Arindam Chatterjee, Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, Delhi, India, on “The Lasso estimator and some of its properties” on October 22, 2019

Department of **Zoology** organised Seminar on “FCS Express-Flow Data Analysis Software” by Dr. Hemant Agrawal, Application Scientist, De Novo Softwares, May 24, 2019.

MEMORANDA OF UNDERSTANDING WITH FOREIGN UNIVERSITIES

To enrich its academic inputs and experiences, the University of Delhi has maintained its tradition of entering into academic collaboration with premier institutions. In its endeavour, the University has signed up for academic and research collaborations with many institutions globally. In the reporting period, MoUs and Agreements were established with:

- Erasmus+ Agreement with University of Iceland
- University of Wuppertal, Germany
- Renmin University, China
- University of British Columbia, Vancouver, Canada
- The University of Kwazulu-Natal, Durban, South Africa
- University of Vienna, Austria (Generic+Student Exchange)
- Peoples’ Friendship University of Russia (RUDN)
- National Research Nuclear University MEPhI (Russia)
- Catholic University in Ruzomberok, Slovak Republic
- Moscow Region State University, Russia
- Universite Paul Valery Montpellier 3, France
- Erasmus+ Agreement, Charles University, Czech Republic
- Universidad Autonoma Metropolitana of the United Mexican States (UAM)
- Erasmus+ Inter-institutional Agreement with the University of Glasgow, UK
- Erasmus+ IIA, Pedagogical University of Cracow, Poland
- Erasmus+ IIA, University of Rijeka, Croatia

- Erasmus+ IIA, FUB, Germany (Renewal)
- Hiroshima University, Japan

SOCIAL OUTREACH

The University of Delhi is an active participant in the “plastic-free-village” campaign in its five adopted villages of Jharoda, Jagatpur, Mukudpur, Badarpur Khadar and Chauhan Patti. While noteworthy work on need based and community participation-oriented programmes have been going on in these villages since 2015, this initiative represents a response to the call by the MHRD to eliminate the use of plastics, and to substitute plastics with environment friendly alternatives. The initiative is being spearheaded by the Department of Social Work in partnership with the School of Open Learning.

The village teams, comprising of students and faculty members, are in the midst of collecting plastic bags, especially single use ones, from the communities and encouraging people to use environment-friendly substitutes like cloth bags and paper bags. The plastic items collected from the communities shall be given for recycling with active participation by the community forums. The teams are distributing cloth bags to the households and are also training children from the community to make paper bags from old newspapers. These efforts symbolise the creation of a shift in the mindset of the people at large and to emphasise that substitutes are not only desirable, but are viable. We are also actively exploring partnerships to facilitate women's groups to initiate cloth bag making in the villages as an income generation venture.

Apart from this, we are investing in awareness building through house-to-house mobilization and street theatre. The Sukhmanch Theatre Group is set to stage nukkad nataks on "Swachhhta" in all five villages and at the University. A group of 45 theatre artists would be performing as part of this initiative. We are also holding poster making competitions in the schools of these five communities. Our students are also embarking on cleanliness drives with community participation. Medical Camps are also being organised under Unnat Bharat Abhiyan initiative in collaboration with National Backward Classes Finance and Development Corporation (NBCFDC) in all five villages, the first one being organised in Jagatpur on the 1st of October 2019. The Department of Posts is also collaborating to open new accounts for the community residents of all five villages.

These social outreach initiatives showcase the participation of the University of Delhi in ‘Swachhata Hi Sewa Campaign’ initiated by the Prime Minister of India under the Unnat Bharat Abhiyan of the MHRD.

The Department of Social Work is combining its work in this domain with the "Swachhhta hi Sewa" initiative and Gandhi Commemoration Week. Apart from the work at the villages, the Department is holding diverse programmes, including a panel discussion on Gandhi's life and philosophy, yoga session, a musical rendering of Gandhi's messages, and a campus cleaning drive.

This ongoing engagement is an integral part of the commitment of the University of Delhi to evolve as a "University beyond Campus" and one that is alive to the critical social realities of our times.

PLACEMENT ACTIVITIES

The Central Placement Cell (CPC) of University of Delhi comes within the preview of DSW Office and organises various Internship and capacity building/skill enhancement programmes for under graduate and Post graduate students. It is also a platform to facilitate students from different colleges and streams to get recruitment opportunities in the illustrious industries across the world.

EQUAL OPPORTUNITY CELL INITIATIVES

Committed to the vision of an inclusive University and the mission of empowering Persons with Disabilities, the Equal Opportunity Cell of the University has continued to endeavor towards the improvement of various facilities for such students during the period April, 2019- March, 2020. Some of its salient activities are detailed below:

Volunteer Support: The EOC provides need-based volunteer support to students with disabilities for academic purposes. This year there was an increase of nearly 18% in such support services from 10526 hours last year to 12845 hours during this year. This support has rendered significant help to students with disabilities in terms of reading services, completing their assignments and filling of their forms etc.

Conversion of reading materials in accessible format: Availability of material in accessible format is vital for the study of visually impaired students. This year there was an increase of nearly 19% in this support activity—from nearly 1000 books, converted into accessible format last year, the number has gone up to nearly 1238 books converted into accessible format this year. An important feature of this activity was that most of the books were outsourced for conversion free of cost to an NGO — Saksham Trust which helped in saving a substantial amount of financial resources of the University.

Admissions: Like every year, important counseling and support was provided to students with disabilities seeking admission to various courses of the University during the period under report. Individualized guidance to such students and their parents helped them resolve their queries and difficulties.

Limited transport facility: Despite there being a compulsion to take two out of its three buses off the road due to prevailing road laws and rules, the EOC has ensured that to the maximum possible extent, the limited transport facility being provided to students with disabilities does not suffer. This has been done through meticulous optimization of one remaining bus.

Centre of Disability Studies:After the submission of the report of the Preparatory Committee, the Executive Council of the University approved the setting up of the Centre for Disability Studies vide ordinance 20Q of the ordinances of the University.

KEBO Camera-Scanner: The EOC took a new initiative during the period under report by procuring KEBO Camera-Scanner. Through the help of this device, it will now be possible to convert books in Hindi and some other Indian languages in e-text format at a faster speed.

RTI Wing

In consonance with the spirit of the Act, the University has been actively disclosing information pertaining to all the arenas of its functioning for the information of its stake holders, which include the employees, students, alumni and prospective students and employees.

During the year 2019-20, the volume of original applications received by the University is almost the same as received by nodal Ministries like MHRD. During the year as many as 2851 original applications were received, 454 First Appeals were heard and 48 Second Appeal hearings were attended.

SPORTS DISTINCTIONS

The Delhi University Inter College Competitions were conducted in Twenty Four (24) Game/Sport for Men category & Twenty Four (24) Game/Sport for Women category. Delhi University Selection Trial was

conducted in One (01) Game/Sport for Men & Women category. Subsequently Delhi University Coaching Camps were conducted for University Teams to participate in North Zone Inter University Tournaments (NZIU) and All India Inter-University Tournaments (AIIU) for Men & Women Category. University Teams participated in Twenty Four (24) Game/Sport for Men category and Twenty Four (24) Game/Sport for Women category in North Zone Inter University Tournaments (NZIU) and All India Inter-University Tournaments (AIIU) for the year 2019-20 organised by Association of Indian Universities

A total 468 (Four Hundred Sixty-Eight) students represented University of Delhi in North Zone Inter University Tournaments (NZIU) and All India Inter-University Tournaments (AIIU) for Men and Women category for the year 2019-20

Honours/Distinctions

Twenty-Four (24) Gold Medal/s (AIIU/NZIU)

Nineteen (19) Gold Medal/s in Individual/Event/Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Boxing (Men), Judo (Men), Shooting (Men & Women) Swimming (Men & Women), Weightlifting (Men)

Two (02) Gold Medal/s in Team Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Badminton (Women), Squash (Men)

Three (03) Gold Medal/s in Team Game/Sport (NZIU) were won by the students of the University of Delhi in North Zone Inter University (Men & Women) Tournament in Chess (Women), Table-Tennis (Women), Tennis (Women).

Twenty-Four (24) Silver Medal/s (AIIU/NZIU)

Eighteen (18) Silver Medal/s in Individual/Even/Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Athletics (Women), Judo (Women), Shooting (Men & Women), Swimming (Men & Women), Taekwondo (Men)

One (01) Silver Medal/s in Team Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Table-Tennis (Women)

Five (05) Silver Medal/s in Team Game/Sport (NZIU) were won by the students of the University of Delhi in North Zone Inter University (Men & Women) Tournament in Badminton (Men & Women), Chess (Men), Cricket (Men), Football (Women)

Eighteen (18) Bronze Medal/s (AIIU/NZIU)

Thirteen (13) Bronze Medal/s in Individual/Event/Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Athletics (Men), Judo (Men & Women), Shooting (Men & Women), Swimming (Men & Women), Wrestling (Women).

Three (03) Bronze Medal/s in Team Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Badminton (Men), Cricket (Men), Softball (Women)

Two (02) Bronze Medal/s in Team Game/Sport (NZIU) were won by the students of the University of Delhi in North Zone Inter University (Men & Women) Tournament in Table-Tennis (Men), Tennis (Men)

GENERAL FACILITIES AND PROGRAMMES

ALUMNI AFFAIRS

The year saw major innovations and further consolidation of Alumni Services attaining global recognition under “*The DU – Alumni strategic Partnership*” designed and steered by Adviser / Dean Alumni Affairs Professor Sydney Rebeiro .

To provide immediate assistance to alumni, a special *Syllabuses Catalogue* spanning 6 decades has been developed .

We served over 1500 *alumni – in – Need* from 26 nations during 2019 – 2020 and augmented our counselling – guidance facilities .

In – person, On – tel , offline and online support was given to alumni *all seven days* a week to the extent possible including during the COVID 19 pandemic lockdown .

The re – designed Alumni e Zine “ *The Alumni Affair*” *किस्सा अलम्नाई का* is now a unique info – creative multi – framed Alumni HelpDesk -News ’n Views - Global Achievers - DU Brand Promotion portal and Editions Eight and Nine were uploaded 2019 -2020 .

The final edit-version of *The Directory of DU Alumni* is ready – to – print and contains 4000 – *plus* names , with special care taken for personal privacy .

The DU Global *Alumni Database* has been edited to 46000 inter-generational names drawn from multiple sources .

Our alumni have again scored very high on an international scale, with **Global Rank 20 in QS World University Rankings** UK 2020 in Alumni Outcomes etc and our University is **ranked 464 in the world** .

Our *Network* increased to 112 Departments, Colleges, SOL and NCWEB and each institution has a Core Coordinator from the faculty and Alumni Representatives identified in cooperation with Heads and Principals .

Our DUAA Representatives on The DU Court 2018 – 2023 are Mr Hari Shankar Gupta , Professor Virendra Kumar Agrawal, Professor Jai Prakash Sharma , Mr Aman Kumar , Professor J L Gupta , Mr Rajesh B Mangla FCA , Adv Nathu Ram Sharma , Dr Sanjeev Kumar Singhal , Dr L S Chaudhary and Mr Swarn Swarup Dubey.

Our Global / HighAchiever Alumni have further reinforced the parent University of Delhi’s preeminent status on both national and international levels .

Their Lordships Justice R F Nariman, Justice Sanjay K Kaul, Justice Dr D Y Chandrachud , Justice Hrishikesh Roy, Ms Justice Indu Malhotra , Justice Sanjiv Khanna , Justice Navin Sinha and Justice S Ravindra Bhat are senior Judges of The Supreme Court of India , while Ms Justice Gita Mittal , Dr Justice Dr S Muralidhar and Ms Justice Hima Kohli are Chief Justices of High Courts and Justices Siddharth Mridul , Vibhu Bakhru, Rajiv Sahai Endlaw, Jayant Nath , Manmohan , Ms Jyoti Singh, Ms Asha Menon , Sanjeev Sachdeva, Vipin Sanghi, Subramanian Prasad are Judges High Court of Delhi , among **over 70 Judges** across the 19 High Courts in India.

The Hon’ble Mr Justice Dasho Tshering Wangchuk was *Chief Justice of Bhutan* and The Hon’ble Mr Justice Om Prakash Mishra was *Chief Justice of Nepal* in this period .

The Nation's top leaders and bureaucrats count our alumni in a virtual sweep of Honours.

At the very top of our alumni Super Achievers is our revered Prime Minister Mr Narendra Modi , a Global Leader at G 7 , G20 and at the vanguard of the COVID 19 Healing Process internationally .

Dr S Jaishankar is External Affairs Minister , Mr Hardeep Singh Puri is Union Minister for Urban Affairs, for Civil Aviation and for Commerce, Rao Inderjit Singh is MoS Prime Minister's Office , Mr Kiran Rijju is Minister for Youth Affairs and Sports and Mr Raj Kumar Singh is Minister for Power and New and Renewable Energy .

Dr Yuba Raj Khatiwada is Finance Minister Nepal.

Among our very eminent citizens are Parliamentarians Dr Subramanian Swamy , Dr Swapan Dasgupta *Padma Bhushan*, Dr Shashi Tharoor , Mr Kapil Sibal , Mr Sanjay Singh and Professor Rakesh Sinha,

Our alumni are counted among India's top mediapersons : Dr Pranoy Roy , Mr Virendra Kapoor, Ms Coomi Kapoor, Mr Prabhu Chawla *Padma Bhushan* and Mr Rajat Sharma *Padma Bhushan*, Mr Harish Khare, Ms Neena Vyas, Mr Ashwini Sareen and Mr WD *Bobby* Mathur...Mr Pankaj Vohra has a record 1150 person / signed columns "*Between Us*" in National dailies) Mr Rajiv Mehrotra is among India's most versatile Film – TV experts, is Managing Trustee Foundation for PSBT with over 49 national- international Awards and is President The Media Foundation, also Secretary HH The Dalai Lama's Foundation for Universal Responsibility, besides Jury Chair National Film Awards *Year 50*.

Mr Pramod Mishra is Secretary to the Prime Minister, Mr Pradeep Sinha is Principal Adviser PMO , Mr Harsh Shringla is Foreign Secretary, Dr Shaktikanta Das is Governor RBI. *Globally* Dr Gita Gopinath is Chief Economist International Monetary Fund.

Mr Jatin Kishor scored Rank 2 in the UPSC Civil List 2019 – 2020 .

As many as **35 Ambassadors** and High Commissioners representing India are DU alumni, including Ambassadors Taranjit Singh Sandhu IFS and his wife Ms Reenat Sandhu IFS, Manjeev Singh Puri , Anumula Gitesh Sarma IFS , Ajay Bisaria IFS, Sandeep Kumar IFS , Sanjiv Ranjan IFS and Sipriya Ranganathan IFS, Sanjiv Ranjan IFS, Sripriya Ranganathan IFS and Ashok Kumar IFS .

Table Tennis exponent Manika Batra was awarded the Khel Ratna 2020 , shooter Manu Bhaker is Arjun Awardee 2020 alongwith Shreyasi Singh Arjun Awardee 2018 .

Mr N K Singh, one of India and DU's most distinguished debators in his time, is Chairman XV Finance Commission, and Governor – Ambassador Mr Gopalkrishna Gandhi is now Life Trustee India International Centre .

Our alumnus ViceChancellor (2010 – 2015) Professor Dinesh Singh *Padma Shri* is Chancellor KRM University and Distinguished Fellow Imperial College London UK , Adjunct Professor University of Houston USA and alumnus VC Professor VR Mehta (1995 – 2000) is Chairman of the all – India pace – setting Foundation for Academic Excellence and Research, while alumna Renana Jhabvala is Chancellor Gandhigram Rural Institute, a Deemed University .

Professor O P Kohli, scholar and longtime TeacherLeader, is 2- term Governor , Professor Dr Jagdish K Mukhi is Governor Assam and India's first lady IPS officer Dr Kiran Bedi is Lt Governor Puducherry .

In addition to the very substantial R 4 Crores *plus* donations generated , all other alumni donations and contributions are added to our Alumni Affairs Account AAAC / Donation A/c .

As we enter the **Centenary Year** of our University, a detailed blueprint on global Celebrations such as DU Centenary logo, Resource Mobilisation , Academic – Culture Leadership , unique innovative academic - professional programmes , alumni related Heritage and Nostalgia projects, programmes and activities was prepared 2018 – 2019 - 2020 by Professor Rebeiro with the Thematic banner : “ *DU : A Centenary of Life worth A Millennium in Service* ” 1922 – 2022 .

DELHI UNIVERSITY LIBRARY SYSTEM

Major Activities and Achievements

Delhi University Library System has taken several measures to revamp the Library and information services provided through its 34 constituent libraries, in keeping with the newly revised Ordinance XVI. A brief listing is given below.

Print Resources

The Library System added 10595 volumes of books to its collection by purchasing out of maintenance grant. The total collections on 31-03-2020 are 1703331 volumes. The current Periodicals Subscribed by DULS is 1087. The DULS also have 45442 thesis/Dissertation.

Electronic Resources

The DULS continued to strengthen the accessibility of electronic resources to the users. There are 43 electronic databases in different subjects and disciplines that are available to the user community of the University.

Audio Book Resources and Braille Library

The Braille Library is actively engaged in supporting teaching, learning and research for the visually impaired students and faculty members. It has 3 audio book production studios, 2 high-capacity Braille embossers, network of 22 latest computers with softwares like Daisy System, Sparsha, OBI, PUTTY, Sigtuna, Jaw, Duxbury, Leap Office etc. There are 1863 audio books, 1981 Braille books, 1818 e-text and 403 books in E-Publishing format etc. Presently 161 members are enrolled in the library. It has circulated 2000 books on CDs and Pan drives. Braille Library is also a member of Sugamya Pustakalya under which the user can download the study material in the form of Audio Books or E-text at remote access.

ACTIVITIES IN OTHER MAJOR LIBRARIES

Central Library (Including the Arts Library)

The Central Library (including the Arts Library) has been able to add a collection of 3731 volumes in the last financial year with a membership of 4465 users and the circulation of 1500 books. The library has been providing Plagiarism Checking Services to its students and teachers. A dedicated desk has been established with trained staff to check research work and generate similarity reports. The Internet access facility at Research Floor in the Central Library is being utilized regularly by an average number of 25-30 scholars per day. The Library is subscribing 242 periodicals in print format. The Library sent 617 documents on loan to other University and received 211 documents from other organization as Inter Library Loan's. The total collection of thesis and dissertation in Central Library is 38676 Approximately (24166 thesis and 14509 dissertations) are entered during the year. A number of visitors from outside Universities like Agra, Banaras, Allahabad, Rohtak, Mahendergrah, Kerala, Karnatak, and Mumbai etc visited the Library.

Central Science Library

The Central Science Library has been able to add a collection of 731 volumes in the last financial year with a membership of 2888 users and the circulation of 48007 books. The library received and sent a number of documents / articles to and from different libraries in the country through JCCC. The current periodicals subscription including print and online is 191.

Ratan Tata Library

The Library has been able to add a collection of 600 volumes in the last financial year with a membership of about 1789. The RTL has augmented its computing facility and unique e-library with 105 terminals to access various resources and one High End server. The total periodicals subscription of RTL is 232 including print and online journals it also has approx -1500 thesis and dissertations in its collection. It also acts as a depositing of UN's and Govt. of India's publications

South Delhi Campus

The South Delhi Campus Library has been able to add a collection of 2245 volume in the last financial year with a membership of 1677 users and the circulation of about 15324 books. Subscription to nearly 164 print journals, 15628 back volumes of periodicals and is fully computerized. Library activities like circulation-Issue-return, reminder, membership, Acquisition-ordering and billing, Serial Control, OPAC takes place in a fully automated environment using Troodon Library Management system.

Faculty of Music and Fine Arts Library

The Library of Music and Fine Arts has a total collection of 16545 books with a membership of 593 users. A large number of visitors from outside Universities also visited the library. In its digital collection its has 2643 cassettes, 1186 CD's 104 Talking Books beside 344 Braille Books. As an extension of Audio-Visual Library, it has a Listening Room with 10 CD players where students can listen the audio material.

Honours/Distinctions

Dr. Rajesh Singh, (University Librarian)

SEMINARS / CONFERENCES / WORKSHOPS/ EXHIBITION

Rajesh Singh and Shailendra Kumar 'Subject of Mapping of Information Literacy, Competency Levels of Social Science Researchers in National Capital Region, India' Library Herald: Vol. 57(2) pp. 1-20, 2019, ISSN 0024-2292.

Rajesh Singh and Shailendra Kumar, 'An empirical assessment of information literacy competency of social science researchers: a gender perspective' Annals of Library and Information Studies: Vol.67 (1) pp. 7-16 March 2020, ISSN 0975-2404 (online); 0972-5423 (Print).

Singh, Rajesh and Kumar, Shailendra Prof., "Measuring information Literacy Core Competency of Social Science Researchers in National Capital Region, India" (2020). Library Philosophy and Practice (e-journal). 4144. <https://digitalcommons.unl.edu/libphilprac/4144>

Singh, Rajesh Dr. and Kumar, Shailendra Prof., "Information Access Skills in Social Science Researchers: Assessment of Competency" (2020). Library Philosophy and Practice (e-journal). 4300. <https://digitalcommons.unl.edu/libphilprac/4300>

Rajesh Singh Vikas Singh, 'Ethical use of Information in Digital Age: Strategies to Crub Plagiarism' IASLIC Bulletin: Vol. 65 (2) pp, 73-83, June 2020, ISSN 0018-8441.

Information Literacy Skill Levels of Social Science Researchers for Information Use Ethics: A Study Proceedings of National Conference on Digital Scholarship, held on 12-13 March, 2020, organized by Department of Library and Information Science, Central University of Tamilnadu. ISBN 9789354062056.

Public Library and Digital Divide: Opportunities and Challenges [In: **Public Library and Digital Divide** edited by Abhaya Kumar Padhi, Odisha State Open University Sambalpur, Sambalpur, Odisha 2020. pp. 20-28. ISBN-.978-81-944673-0-4.

Delivered online lecture on "Research and Publications in e-Information Environment" on 14th May 2020, in Online Faculty Development Program on Research and Publications in e-Information Environment, Organized by Department of Commerce, PSG College of Arts & Science Coimbatore, Tamilnadu, India.

Delivered online lecture on "Issues and Challenges of Plagiarism in Academic Writing" on 9th July 2020, in Webinar Series 3, Organized by Alauddin Makassar University, Indonesia.

Facilities

Information Literacy Programme

DULS has initiated and regularly conducting Information Literacy Program since 2006 and organized a total of 173 Information Literacy programs in various departments and colleges of University of Delhi including 143 E-Resource Orientation programs, 15 Hands on Training Sessions, 15 One Day Workshops for Research Scholars in Social Sciences. In the current year DULS has conducted 15 Information Literacy Programs in Departments/Colleges and in Conference Centre.

Similarity Detection

The Central Library has been assigned the work of similarity detection for the research assignment submitted by students. Central Library has started similarity detection since April 2019 to March 2020 and a total of 4500 Ph.D Thesis and M.Phil Dissertations, and other research assignments have been verified.

Document Delivery Service

The J-Gate @UGC Infonet provides article-level access for all the databases subscribed by the UGC-INFONET Digital Library consortium, about 5,200 open access electronic journals, and print journals subscribed by 30 University libraries designed as Inter-Library Loan (ILL) Centers of the INFLIBNET Centre. DULS is one of the 30 designated ILL Centers for the services.

Human Resources

The training facility created in the Central Library for imparting training on 'Use of Computers in Libraries' has been conducting the training programme for the benefit of Library Staff of the University and College Libraries.

Other Significant information

DULS—Website

DULS-Website which includes the catalogue of selected libraries (OPAC); a provision of e-referencing, A-Z list of E-journals, Online Information Literacy Tutorial, Subject Portal, Ask your Librarian, access to electronic resources including open access resources and several other user friendly features, is in operation.

Digital Library

The Library has digitized 14386 books out of copyright zone available in DULS and have been placed on the web for global internet accessibility using the Open Source Content Management System, namely, 'D-space'. The URL is <http://library.du.ac.in/dspace>. The same is also available on Digital Library of India's portal.

Summer Internship

DULS continued to engage students of Master's Programme in the Library & Information Science as summer interns @ Rs. 7,500/- per month 13 student have been given training in various Libraries during the period.

DELHI UNIVERSITY SOCIAL CENTRE CO-ED SCHOOL

Major Activities and Achievements

Delhi University Social Centre Co-ed Secondary School is becoming one of the known schools in its nearby area. It is situated in midst of the residential area of Block – C, Maurice Nagar, Delhi – 07. A small group of voluntary women organizations had started the school in the year 1945. They had a humble beginning at the behest of Sir Maurice Gwyer in pre independent India. Since 1964 the School gets 95% aid from Delhi Govt. and 5% from the University of Delhi. The Delhi University has provided a modern building for the School during the period of Vice Chancellor Prof. Moonis Raza from its own funds which is maintained by Engineering Department of the University. The DU granted one-time grant of Rs. 12 Lacs for contractual staffs and infrastructure facilities. The DU has also allotted us the Quarter C-4 adjacent to the School. Few Primary classes and Nursery Section operate in that building. The School was upgraded from 8th to 10th standard in 2003.

The Managing Committee of the School consists of 13 persons, including 6 professors nominated by the University, 1 Executive Council member, 2 nominated by the Delhi Govt., 3 from school and 1 from Parent Teachers Association. The Members of Present Managing committee is:

Prof. Namita Ranganathan (Chairperson)

Dr. Sunil Kumar (Manager)

Dr. V. S. Negi (E.C. Member)

Dr. Vikas Beniwal (Member)

Dr. Girish Chadha (Member)

Dr. Sunita Singh (Member)

Dr. Monika Kaul (Member)

Dr. Garima Bharti (HOS)

Mrs. Seema Kumari (Vice-Principal, GGSS Burari) Member of advisory board of MC

Mr. Harish Nagpal (Staff Representative)

Mrs. Geeta Satija (Staff Representative)

Mr. Mohd. Zamil (PTA Secretary)

The School Staff consist of Dr. Garima Bharti (HOS) along with 6 TGT, 6 Asst. Teachers, 1 Yoga Teacher, 1 PET teacher, 1 peon, 2 Chowkidar, 1 Mali, 1 Water Woman and on Contract: 1 Office Assistant, 2 Nursery Teachers, 1 Nursery Aaya, 1 I.T. assistant, 1 Computer teacher and 1 Safai Karamcharies

Details of various academic and co – curricular activities taken under during the academic session 2019–20(1st April 2019 to 31st March 2020)

The School has strength of around 600 students. We are happy that it is becoming one of the good schools in the area in every field i.e. academic and co-curricular activities.

This year first time we organized zonal competition in school premises and CIE auditorium successfully with the support of management. We participated in following activities and won handful of prizes.

S. No.	Name of activity	Achievements
1.	Essay writing (Hindi, English)	Won 1 st prize in English at zonal level
2.	Sanskrit Shloka Recitation	Won 2 nd prize at zonal level
3.	Mono Acting	Won 1 st prize at zonal level
4.	Drama	Won 2 nd prize at zonal level
5.	Musical Instrument	Won 1 st prize at zonal level
6.	Poem Recitation (Hindi, English)	
7.	Folk Dance	

We Celebrated the Following Functions During the Year in the School

Earth Science Week in the month of April

Independence Day

Children Day

Red Cross Day

Republic Day

Teacher Day

We rigorously followed the academic calendar by Directorate of Education, as per that half yearly exams were conducted in September and final exams in February 2020.

Various Workshops and Seminars Conducted

Parents were also given counseling for motivating to send their wards to School regularly and shaping their role in the education of their children.

Our school is co-ed school with students of age group of 5-15 years, guidance and counseling workshops were arranged with the help of Department of Social Work, D.U.

The school has conducted a Mock Drill to create an awareness of natural disaster like earthquake among the students.

Our school had organized a seminar on Legal Literacy for class VIII to X.

The School had participated in various sports activities and won couple of prizes. Our request for provision of playground has not been acceded yet but we again and again requesting for the same for the overall development of students as well as there is a condition laid by the CBSE for granting the affiliation to the school.

The School is keenly waiting for the decision of Delhi Government for grant of aid for the secondary section of the school. In the meanwhile, Delhi University is giving enough support for the expenses of secondary section of the school. School Managing Committee is thankful for your continuous support.

DELHI UNIVERSITY SPORTS COUNCIL

Major Activities and Achievements

Delhi University Inter College Competitions were conducted in Twenty Four (24) Game/Sport for Men category & Twenty Four (24) Game/Sport for Women category. Delhi University Selection Trial was conducted in One (01) Game/Sport for Men & Women category. Subsequently Delhi University Coaching Camps were conducted for University Teams to participate in North Zone Inter University Tournaments (NZIU) and All India Inter-University Tournaments (AIIU) for Men & Women Category. University Teams participated in Twenty Four (24) Game/Sport for Men category and Twenty Four (24) Game/Sport for Women category in North Zone Inter University Tournaments (NZIU) and All India Inter-University Tournaments (AIIU) for the year 2019-20 organized by Association of Indian Universities.

A total 468 (Four Hundred Sixty-Eight) students represented University of Delhi in North Zone Inter University Tournaments (NZIU) and All India Inter-University Tournaments (AIIU) for Men and Women category for the year 2019-20.

Honours/Distinctions

Twenty Four (24) Gold Medal/s (AIIU/NZIU)

Nineteen (19) Gold Medal/s in Individual/Event/Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Boxing (Men), Judo (Men), Shooting (Men & Women) Swimming (Men & Women), Weightlifting (Men).

Two (02) Gold Medal/s in Team Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Badminton (Women), Squash (Men).

Three (03) Gold Medal/s in Team Game/Sport (NZIU) were won by the students of the University of Delhi in North Zone Inter University (Men & Women) Tournament in Chess (Women), Table-Tennis (Women), Tennis (Women).

Twenty Four (24) Silver Medal/s (AIIU/NZIU)

Eighteen (18) Silver Medal/s in Individual/Even/Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Athletics (Women), Judo (Women), Shooting (Men & Women), Swimming (Men & Women), Taekwondo (Men).

One (01) Silver Medal/s in Team Game/Sport (AIIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Table-Tennis (Women).

Five (05) Silver Medal/s in Team Game/Sport (NZIU) were won by the students of the University of Delhi in North Zone Inter University (Men & Women) Tournament in Badminton (Men & Women), Chess (Men), Cricket (Men), Football (Women).

Eighteen (18) Bronze Medal/s (AIU/NZIU)

Thirteen (13) Bronze Medal/s in Individual/Event/Game/Sport (AIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Athletics (Men), Judo (Men & Women), Shooting (Men & Women), Swimming (Men & Women), Wrestling (Women).

Three (03) Bronze Medal/s in Team Game/Sport (AIU) were won by the students of the University of Delhi in All India Inter-University (Men & Women) Tournament in Badminton (Men), Cricket (Men), Softball (Women).

Two (02) Bronze Medal/s in Team Game/Sport (NZIU) were won by the students of the University of Delhi in North Zone Inter University (Men & Women) Tournament in Table-Tennis (Men), Tennis (Men).

DELHI UNIVERSITY WOMEN'S ASSOCIATION

Delhi University Women's Association (DUWA) is a social welfare organization and was registered under the societies Registration Act XXI of 1860 (Punjab Amendment Act 1957) as extended to the Union Territory of Delhi, on 31st October, 1964, with the aim to promote and to carry on social, cultural, recreational, educational and economic activities for the benefits of the women in and around Delhi University. DUWA was started by Dr. Durgabai Deshmukh, a social activist, a great visionary and wife of the then Vice Chancellor Prof. C. D. Deshmukh with the vision of empowering deprived and under privileged women.

Programmes and Activities

Play Schools: DUWA runs two Pre-schools, Durgabai Deshmukh Balwadi and Usha Ganguly Shishu Vihar, established in 1966 and 1967 respectively, to promote intellectual, emotional, social, esthetic and physical development of a child. The Balwadi is meant for the children from economically weaker sections where they are given free nutrition. There are about 200 children enrolled in both the schools.

Women's Hostels: DUWA established the working women hostel Sri Sadan to commemorate the international Women's year in 1975, for the benefit of the single women teachers of Delhi University and affiliated colleges. The other two hostels, Old DUWA Hostel and New DUWA Hostel provide accommodation to the M.Phil and Ph.D students of Delhi University. There are about 36 residents in the hostels with a full-time warden.

Vaatsalya: This childcare Programme is meant to support the working mothers from Delhi University with the objective of reducing their stress related to the wellbeing of their children. This Day-Care facility is for the age group of 6 months to 6 year old children. There are 50 children admitted to this facility.

The Mind Body Center: Promoting the wellness of the women students at Delhi University is a prime objective of this center which was inaugurated by Prof. Dinesh Singh, Vice Chancellor, Delhi University, in February 2014. As problems of the Mind and Body are interconnected, they need to be dealt in a holistic manner by the expertise of the physician, naturopath and counselor at the center. In addition to free consultation, the practice of yoga and acupressure techniques is also used at the center.

Souvenir Shop: The Souvenir shop was launched in November 2014 to commemorate DUWA's Golden Jubilee Celebration which was inaugurated by Prof. Dinesh Singh, Vice-Chancellor of Delhi University. The primary purpose of this activity is to promote the DU brand and to simultaneously inculcate a sense of pride and belonging amongst the students and other members of the DU community. The design and sale of the souvenir items is being managed by DUWA members. There has been a great demand for some souvenir items like folders, sweat shirts, bags, pens, key chains, mugs, etc.

Sahyog: Sahyog programme helps school students of standard from I - XII from the neighborhoods with the objective of improving their academic performances. In this tuition support programme, the children are served nutritious snacks and health drinks. Classes are held six days a week from 3-5 pm., and there are about 40 children enrolled in this programme.

Drishti: DUWA members have made significant contributions through Drishti Programme by addressing the needs of the visually challenged students of Delhi University. Members read out and record lessons, arranging study materials and provide emotional support to the visually challenged persons.

Jagriti: Recognizing the growing incidents of cancer among women this programme strives to spread awareness through organizing lectures, discussions, screening camps, street plays competitions and other activities among the students of Delhi University.

Computer Literacy Programme: In this a four-month computer course which is conducted to impart the basic knowledge that includes MS-Word, Excel, PowerPoint, Access and Internet. The aim of this programme is to help girls to acquire basic computer skills.

Language familiarization Programme: DUWA is taking the initiative of conducting free short-term language familiarization courses for DUWA members, DU staff, faculty and students. The programme started with a three months course of Chinese Language.

Golden Jubilee Celebration: DUWA's Golden Jubilee was celebrated over four days with lot of zeal and festivities from 20th November to 23rd November 2014. On 20th the Souvenir shop was inaugurated by Prof. Dinesh Singh, Vice Chancellor of Delhi University. There was a wellness programme for Mental Health awareness conducted by the staff of Mind Body Center and Ms.Shifa Haq from Ambedkar University. On 21st November there was a winter carnival participated by non-profit organizations from Delhi. On 22nd November there was a vocal classical musical evening by Dr. Shanti Hiranand and Padmashree Dr. Uma Tuli, the founder of Amar Jyoti Trust, graced the occasion as Chief Guest. On 23rd November there was a cultural evening performed by the members of DUWA followed by dinner hosted by Delhi University.

Participation in Antardwani: Like every year, DUWA actively participated in Antardhwani in February 2015. There were four stalls put-up by DUWA, i.e., Food Court, Good Practice Stall, DU Souvenir stall and Saplings Stall. DUWA won a prize of Rs.1,00,000/- (Rupees One Lakh only) in the special category for its Good Practice Stall.

All Activities

Orientation Programme with parents of DDB & UGSV school was celebrated on 20.4.19

Summer camp was organized from 20.5.2019 to 14.6.2019. Approximately 50 children participated and learned many activities for developing the children skills from waste material.

One Refrigerator worth Rs.48700/- was purchased for Hostel on 17.5.2019

EPBAX System for telephone wire worth Rs. 34,043/- was purchased on 17.5.2019.

Audit Work was done in May 2019.

2 **Almirahs** purchased for DUWA Office worth Rs.35400/- on 7.6.2019.

Yoga Day celebrated on 21 June 2019

2 **single beds** for hostel worth Rs.7552/- was purchased on 26.6.2019.

100 chairs and **1crockers** purchased for school worth Rs 25370/- on 26.6.2019

Teej and Get-together celebrated on 3.8.2019.

Teacher's day was celebrated on 5.9.2019 with other activities and delicious lunch.

Diwali Mela was organized on 22.10.2019. Around 70 stalls with many NGOs of Delhi were put up, **Member of Parliament Manoj Tiwari** was the Chief Guest.

2 Walker was purchased for Vaatsalya on 30.11.2019.

1 DVR was purchased for CCTV Camera on 20.12.2019.

Annual day of DDB & UGSV was celebrated on 21.12.2019, **Chief Guest** was **Mrs. Jennifer Tytler (Director of J D Tytler School)**, and **Guest of Honour** was **Mrs. Anita Sharma (Principal of S D Public School)**.

DUWA had organised "**Free Mobile Eye Checkup Camp**" with the collaboration of **Centre For Sight** on 16 January 2020. Approximately 100 people were tested.

DUWA had celebrated **Mind BODY CENTRE Foundation Day** on 13.2.2020.

DUWA had organized free Cancer Screening Camp by "**Dharmshilla Cancer Foundation And Research Centre**".

International Women's day and Holi were celebrated on 5.3.2020 and DUWA members organized many activities.

DIRECTORATE OF HINDI MEDIUM IMPLEMENTATION

The Directorate of the Hindi Medium Implementation publishes high standard text books in Hindi, primarily on Social Sciences and Humanities for the benefit of under-graduate and post-graduate students who opted for Hindi as the medium of their study. We have published approximately 270 books in various subjects including History, Political science, Education, Commerce, Law, Sports and Physical Education, economics, Philosophy, Geography, Literature etc. so far.

For the year 2019-20, Directorate has six new titles, ten revised edition and more than fifty reprints ready to publish.

FOREIGN STUDENTS REGISTRY

There has been an increase among the international student community to seeking admission to various programmes offered by the University of Delhi for the academic year 2019-2020. The office of foreign students received 2570 applications including 1200 applications of ICCR scholarship holders. In total 589 students, from 50 different countries were admitted to the first year of various programmes ranging from certificates courses to Ph.D. Programme of the University of Delhi during the academic session 2019-2020.

Best Practices of Foreign Students' Registry

Offering Integrated Services: Admission and stay of foreign nationals in DU has been made convenient by providing updated information about Colleges/Departments/ FRRO/Hostel Admission/ Facilities through counseling.

Updated Website: The website has been equipped with various information regarding the process of admission and the associated statistics. It also provides useful information to students to make their stay and study at the University of Delhi an enjoyable experience.

Inter-Linkage with ICCR & MoEA: An effective linkage has been achieved between these institutions which facilitates sharing information to candidates residing in other countries regarding the status of application for admission.

Disseminating information: Disseminating Information about the queries of foreign students through email, phone, personal contact at FSR, universities abroad, alumni, Indian missions overseas, and other such means.

Online Admission & Fee Collection: The admission process has been streamlined through newly developed admission software and the collection of fees for all programmes is now undertaken online using an online software fee module.

Transparency: The Data of enrolled students Year/College/Course/Country wise is shared online in a user friendly manner.

Appointment of one Nodal Officer in each College/Department/Institute/: A request has been sent to all institution/s colleges/ departments for designating one person specifically to be our Nodal Officer. we are updating that list from time to time.

There was a series of interaction with various Foreign Students' Associations in our University.

Actions Taken by Foreign Students' Registry

Counseling of foreign students: This is undertaken at the time of admission as well as on regular basis at the FSR office through personal contacts and convening of meetings.

Meeting with Ambassadors/Embassy Officials for the benefit of foreign students already enrolled and those seeking admission in Colleges/ Departments.

An Admission Committee is formed to supervise the complete admission process.

The data of enrolled students of last 5 years is made available online on the Foreign Students Registry's website.

FSR held meetings with Foreigners Regional Registration Office (FRRO) for issues related to the stay of foreign students.

The International Students' Fair of Delhi University was held on 5th November, 2019 in the Viceregal Lodge. Hon'ble Minister of State for External Affairs Mr V Muraleedharan graced the occasion as the Chief Guest. Director General, ICCR was the Guest of Honour. Hon'ble Vice-Chancellor Prof Yogesh K Tyagi presided over the function. The event was well attended by Ambassadors and representatives of various diplomatic missions. The event included a cultural extravaganza where students showcased their diverse cultures through dance, music and stalls depicting their regions.

The Hon'ble Minister delivered an inspiring keynote address to a packed auditorium. He began with congratulating the students on their admission. He called attention to the role of universities as strategic partners in the mandate of the government's quest for internationalization. He appreciated Delhi University's efforts in this through their large enrolment of international students and also reaching out to the international academic fraternity through collaborative programmes, research networks, student exchanges and other channels. He recognized the university's progress in alternate methods of education for social inclusivity. The Minister highlighted the various scholarships schemes of the Government of India, including the one by ICCR administered by his ministry. He wished the students an enriching experience and also emphasized that the best way to experience the diversity of India is by taking opportunities to

travel and enjoy the cultural variety.

The Hon'ble Minister launched the admission portal for the next academic session.

The Vice-Chancellor, Prof Yogesh K. Tyagi in his message, welcomed the international student community and lauded their spirit of joy and enthusiasm. He assured them of the university's commitment for their welfare. He further stressed on the need for an all-round development and their responsibilities to society and to their alma mater.

Foreign Students' Advisor remarked that there has been a significant increase in the intake of overseas students and highlighted the challenges that came with increasing numbers and diversity. She congratulated the international student community of the university students on their spirit of camaraderie, co-ordination, and co-operation.

GANDHI BHAWAN

Major Activities and Achievements

On the directions of Hon'ble Vice Chancellor, University of Delhi, a monthly programme of Bhakti Sangeet (first Sunday of each month) has been started in February 2019 which was going on till March 2020 (closure due to Covid19 since March 2020). On 7 May 2019, a musical concert on Akshay Tritya and Rabindranath Tagore jayanti was celebrated in which Dr. Shalini Thakur and team of Faculty of Music, University of Delhi presented bhajans. The International Yoga Day was celebrated on 21 June 2019 in which Prof. Yogesh K. Tyagi, Vice Chancellor, University of Delhi was the chief guest. An International Conference on 'Legacies of Gandhi and Mandela and its Contemporary Relevance' was organized on 18 & 19 July 2019. A National Seminar on 'Gandhiyug Ke Nirmaan me Striyon ki Bhumika' was organized in collaboration with Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi on 8 August 2019. On 21 & 22 November A two-day International Conference on 'Tolstoy to Gandhi: A Philosophical Journey' was organized in collaboration with Embassy of Russia in India and Tolstoy Museum, Russia. The chief guest on this occasion was our Hon'ble Vice Chacnellor and the great grandson of Leo Tolstoy. Prof. Srikrishna Kulkarni, grandson of Mahatma Gandhi and Chairman, IIM, Kolkata. The Constitution Day was celebrated on 26 November 2019. A bhakti and sufi sangeet programme was organized in which Smt. Pooja Goswami Pavan & team performed on 23 January 2020. A Bhakti Sangeet programme was organized in which Shri Sujit Kumar Ojha and team performed spiritual bhajans.

Lecture Series on Living Gandhi

The inaugural lecture of the series was delivered by Prof. Madhulika Banerjee, Department of Political Science, University of Delhi entitled, '*Walking with the Mahatma: Living Gandhis of the 21st Century*' on 20 September 2019. Shri Siya Sharan, Finance Officer, University of Delhi inaugurated the programme and Prof. Anand Prakash, Head, Department of Philosophy, University of Delhi, chaired the session.

The second lecture was delivered by Shri Shravan Goel, Social Worker on topic, 'मेरा गाँव मेरा तीर्थ' chaired by Dr. Pramod Kumar, Chief New Editor, Organizer on 24 December 2019. On this occasion, a book entitled 'बापू के पदचिन्हों पर आधुनिक भारत के गुमनाम समाज-शिल्पी' by Dr. Pramod Kumar was released.

The third lecture was delivered by Shri Vinod Melaana, Secretary, Amrita Devi Paryavaran Nagrik Sansthan, Bhilwada, Rajasthan on topic, 'परंपरागत जल संरक्षण और हम' on 11 February 2020. The programme was chaired by Shri Ravindra Agarwal, Senior Journalist.

Programmes/ Events Organized by Gandhi Study Circle Colleges

Ram Lal Anand College: On 5 March 2019, a seminar on ‘Gandhi ke Sapno ka Bharat’ was organized.

Dyal Singh College: The Gandhi Study Circle of the college organised a seminar on Gandhian Philosophy on 3 September 2019.

College of Vocational Studies: The Gandhi Study Circle of the college organised a National seminar on ‘Thought and Activism: Perspectives on Gandhi’ on 25 & 26 September 2019.

Miranda House: The Gandhi Study Circle of the college organised a speaker session on Gandhian Ideology on 30 September 2019.

Dyal Singh College: The Gandhi Study Circle of the college organised a seminar on Gandhian philosophy on 3 October 2019.

Bharati College: The Gandhi Study Circle of the college organised a Gandhi Jayanti programme.

Jesus & Mary College: The Peace Society of the college organized a programme on Gandhian principles and Relevance of Gandhi Today at its annual day on 18 October 2019.

Ram Lal Anand College: The Gandhi Study Circle of the college organised an International Conference on ‘Gandhi Across Boundaries’ on 23 October 2019.

Ramjas College: The Gandhi Study Circle of the college organised a seminar on Gandhian Philosophy on 7 November 2019.

Shyama Prasad Mukherjee College: The Gandhi Study Circle of the college organised an International Conference on ‘In Dialogue with Mahatma Gandhi’ on 8-9 November 2019.

Ramanujan College: The Gandhi Study Circle of the college organised various programme on Mahatma Gandhi like Seminar, inter-college competitions, etc. on 11 November 2019.

Bhaskaracharya College of Applied Sciences (BCAS): The Gandhi Study Circle of the college organized a lecture by Dr. Sheila Tewari on Naturopathy on 12.11.19.

Facilities

Yoga and Meditation Practice sessions – Monday – Friday (free training)

Free Legal Aid Clinic under the auspices of Delhi State Legal Services Authority, Tis Hazaari, Delhi

Other Significant Information

Programmes/ events attended by the Director, Gandhi Bhawan, as Chief Guest/ Inaugurator/ Speaker/ Resource Person, as following:

Date	Programme/ Event	Collaboration/Organized by
25.9.2019	National seminar on ‘Thought and Activism: Perspectives on Gandhi’	College of Vocational Studies, DU
30.9.2019	Talk on ‘Gandhian Ideology’	Miranda House, DU
3.10.2019	Seminar on Gandhian Ideology	Dyal Singh College, DU

3.10.2019	Gandhi Jayanti Programme	Bharati College, DU
11.10.2019	Seminar on 'Gandhi and Sustainable Lifestyles'	IIPA, New Delhi
18.10.2019	Seminar on Gandhian principles and Relevance of Gandhi	Jesus & Mary College, DU
23.10.2019	International Conference on 'Gandhi Across Boundaries'	Ram Lal Anand College, DU
7.11.2019	Seminar on Gandhian Philosophy	Ramjas College, DU
8.11.2019- 9.11.2019	International Conference 'In Dialogue with Mahatma Gandhi'	Shyama Prasad Mukherjee College, DU
11.11.2019	Seminar and inter-college competitions on Gandhian philosophy]	Ramanujan College, DU
21.11.2019- 22.12.2019	Gandhi Training Programme at Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha	MGIU, Wardha, Maharashtra
31.1.2020	National Seminar on 'Gandhi & Ambedkar 'Contemporary Perspective'	Hansraj College, DU
3.1.2020	Invited by Rashtrapati Bhawan for an Interactive Session/ sharing of experiences and contributions towards propagation of the philosophy of Mahatma Gandhi with the Hon'ble President of India, Shri Ram Nath Kovind regarding GANDHI 150	Shri Ram Nath Kovind President of India at Rashtrapati Bhawan
18.1.2020 - 21.1.2020	Visited Djibouti (East Africa) to deliver lectures at the Embassy of India at Djibouti and other institutions there.	Ambassador, Embassy of India at Djibouti (ICCR, New Delhi)
22.1.2020	Swami Vivekananda Jayanti	Shri Mukul Kanetkar, Senior Thinker

Courses Conducted by Gandhi Bhawan

Yoga and Meditation Certificate Course – Three months (twice a year)

Charkha/ Spinning Training Certificate Course – Three months

Khaddi (handloom) Training Certificate Course – Three months

GARDEN COMMITTEE

Major Activities and Achievements

Varsha Vriksharopan 2019: plantation of trees/shrubs/herbs/hedge plants at various sites of North Campus, University of Delhi.

A series of native tree-planting events to enhance and rejuvenate green spaces at the University of Delhi had been launched since 2018. This year the initiative was continued with plants kindly donated by alumni at TPDDL. At least 1800 saplings of native and ornamental tree species of Delhi from diverse plant families were planted at various Departments and Gardens of North Campus maintained by Garden Committee. These included 'Gulmohar' (*Delonix regia*), 'Neem' (*Azadirachta indica*), 'Jacaranda' (*Jacaranda*

mimusifolia), ‘Kanak champa’ (*Pterospermum acerifolium*), ‘Amaltas’ (*Cassia fistula*), ‘Putranjiva’ (*Putranjivaroxburghii*), ‘Neem’ (*Azadirachta indica*), ‘Kamini’ (*Murrayapaniculata*) etc.

Plantation of Native Tree Species at Various Colleges of University of Delhi

Various Colleges of the University participated in Varsha Vriksharopan 2019 drive with tree species like ‘Kadamba’ (*Neolamarckiacadamba*), ‘Shahtoot’ (*Morus nigra*), ‘Amaltas’ (*Cassia fistula*) ‘Kachnar’ (*Bauhinia variegata*), ‘Jackranda’ (*Jacaranda mimusifolia*), ‘Arjun’ (*Terminalia arjuna*), ‘Gulmohar’ (*Delonix regia*) etc. Students of college eco-clubs and teachers of Bhaskaracharya College (BCAS), Institute of Home Economics (IHE), Jesus and Mary College, Keshav Mahavidyala, ANDC, Ramjas College, Hansraj College and Miranda House participated actively.

Development/Renovation of New Lawns and Gardens

Renovation of lawns covering was achieved at residential areas in Chhatra Marg (total area about 540x2 sqft.)

Honors/Awards

Participated in IARI, PUSA Flower Show held on 1-3 March, 2020 and awarded with 8 prizes in class 1,3 and 4 for best exhibits in flower pots and received Palekar Challenge Cup

Facilitations of University Events

The Malisand staff of the University Garden Committee provided support in Decoration and Flower arrangements in various events (Foundation Day, Convocation Day, Alumni-meets of University, International and National seminars, lecture series, orientation and refresher courses) organized by various offices and Departments of the University during the period of 1/4/2019 to 31/03/2020.

Under the program of *SwachhataPakhwada* commitments for University of Delhi, the Garden Committee organized a plantation drive to make the Campus greener. Students, teachers and staff of the University of Delhi participated enthusiastically in the program at the Delhi University Arboretum, department lawns and gardens.

Other significant information

62nd Annual Flower Show – 2020

The 62nd Annual Flower Show was held on 29th February 2020 at the lawns of the Mughal Garden. The Flower Show was inaugurated by the Chief Guest, Hon’ble Mr Justice Dipak Misra, former Chief Justice of India, and Professor YK Tyagi, Vice-Chancellor, University of Delhi. The theme of the Flower Show was “**Indian floral forms and functions/भारतीय पुष्पाकृतियाँ एवं महत्व**”. Educational stalls on Bio-diversity Parks; Herbal Gardens; and “Biota: web of life” were popular. The Flower Show culminated with the award of 73 rolling cups, trophies and prizes. There were about 3000 entries from colleges, schools and universities of Delhi/NCR for competitions in different categories, classes and sections. A special feature of this flower show was the first award of “Garden Bandhus” to eminent alumni recognizing their significant contributions to activities of the University Gardens. The Flower Show was attended by an estimated 5000 visitors. Particularly attractive exhibits of dahlias, buttercups, daffodils and lilies were on display.

On the Spot Photography Competition

A Photography Competition for all visitors and students of University of Delhi was organized on Friday, 29th February 2020 from 10.00 a.m. - 1.00 p.m. at Flower Show Venue. Over 50 persons participated in the Photography Competition.

Maintenance and Online Requisition Procedure Activated at Website of the Garden Committee

New initiatives and documentation related to major activities of the University gardens, Process of online requisition forms for streamlining requests related to gardens and lawns from the University community was launched and made available at www.universitygardens.du.ac.in The website is maintained by student volunteers and the office.

Student Activities

Post-graduate students of the University interacted with gardeners/*malis* and staff of the University Gardens to conduct hybrid-mode experiments using bioinformatic tools and live plants as resources (native tree species) available in the Nursery, Herbal Gardens and University Arboretum to document plant diversity on Campus.

INTERNATIONAL GUEST HOUSE

Major Activities & Achievements

Catering Arrangements: Special catering arrangements were provided to four hundred fifty bookings received for Lunch/Dinner/Hi-Tea/Conferences/Meetings and Seminars during the said period.

Rooms Accommodations: During the period one thousand four hundred thirty-nine rooms were provided for accommodation and messing. Most of the guest stayed at IGH were foreigners and all the guest were satisfied by the Services/food/behavior of the staff of IGH.

Facilities

Procurement of One EPBAX System with Two Key Telephones, Linen Items (Bed Sheet, Bath Towel, Hand Towel, Bed Cover, Quilts etc.), Nine Window Air Conditioners, Two Gizer, Twelve Electric Kettle and Two Fly Killer Machine for the guest rooms.

Other Significant Information

White-wash of six guest rooms, Making of two rooms' granite almirah from Engineering Department.

NATIONAL CADET CORPS

Enrolments of NCC Cadets in Senior Wing and Senior Division in the 46 colleges of the University of Delhi were conducted and approximately 5,500 cadets were enrolled by the college NCC units individually. NCC cadets actively participated in various University level activities like University Convocation, Road Safety Programme, Shaurya Diwas, Republic Day, Independence Day, Operation Sadhbhavana, Constitution Day, Covid 19 awareness campaign, mask distribution, food distribution, arogya setu app awareness, lockdown awareness etc.

NCC cadets also actively participated in Fit India Campaign, Swachh Bharat Summer Internship Programme, International Day of Yoga, Swachh Bharat Abhiyaan, Ekta Diwas, Basic Leadership Camp, Army Attachment Camp, Combined Annual Training Camp, Vayu Sainik Camp, Thal Sainik Camp, Nav Sainik Camp, Special National Integration Camp, Pre-Republic Day Camps, Republic Day Camp, CM Rally, PM Rally, Amar Jawan Jyoti, National Integration Camp, Youth Exchange Programme etc. organised by NCC Directorate Delhi.

NATIONAL SERVICE SCHEME

A variety of Activities were organised under the aegis of NSS Centre by the volunteers of NSS Units in the session 2019-2020.

Major Activities and Achievements

Swachh Bharat Summer Internship: 10 June 2019- 31 July 2019

Ministry of Drinking Water and Sanitation, Ministry of Human Resource Development and Ministry of Youth Affairs and Sports launched Swachh Bharat Summer Internship Programme with an aim of making Swachhata a Jan Andolan. NSS Volunteers from various Colleges of University of Delhi successfully completed 100 hours of Internship.

International Day of Yoga: 21 June 2019

International Day of Yoga was celebrated by NSS Centre in collaboration with Gandhi Bhawan. Honorable Vice Chancellor, University of Delhi graced the occasion and boosted the morale of the participants. More than 180 NSS Volunteers from various colleges participated in the event.

Participation in National Youth Award Programme: 12 August 2019

National Youth Award 2019 Programme was held at Ashoka Hotel, New Delhi on 12 August 2019 in which our talented culturally sound NSS Volunteers performed their cultural performance in this Programme. The Minister of Youth and Sports, Government of India appreciated the performance of the Volunteers of University of Delhi.

Celebration of NSS Day: 24 September

NSS Day was celebrated with the theme “Swachhta Hi Sewa” by launching cleanliness drive from 11 September to 27 October 2019. Plastic Waste Free Campaign was successfully done through Door to Door meetings, Nukkar Nataks and wall Paintings were made by NSS Volunteers.

Rastriya Ekta Diwas: 31 October 2019

On the occasion of the Birth Anniversary of Sardar Vallabhai Patel, Rastriya Ekta Diwas was celebrated by the NSS units on October 31st 2019. As part of the celebration NSS units conducted various activities like Pledge on Rashtriya Ekta, Unity Run and Lectures by Youth on “National Unity and thoughts of Sardar Vallabhbhai Patel”.

Pre-RD Camp 2019

Pre-Republic Day Camp 2019 was organized from 15 November to 24 November 2019 at Chitkara University Punjab. NSS Volunteers from Atma Ram Sanatan Dharma College, Lakshmibai College, Lady Irwin College, Shaheed Bhagat Singh College Evening and Kirori Mal College participated in the Camp.

Celebration of Constitution Day: 26 November 2019

Constitution Day was Celebration on 26 November 2019. Essay writing and screening of Documentary on Constitution of India was organized by NSS Units with special emphasis on Fundamental Duties.

Republic Day Parade Camp: 1 January to 31 January 2020

In the RD Parade Camp from 1 January 2020 to 31 January 2020, two NSS volunteers from University of Delhi, Ms. Ankita Tiwari from Dyal Singh College and Rishav Kumar from Kirori Mal College were part of the NSS Contingent at the Republic Day Parade 2020.

National Youth Festival 2020

23rd National Youth Festival 2020 was organized at Lucknow (Uttar Pradesh) from 12-16 January, 2020. NSS Volunteers from Sri Aurobindo College (Morning), Kirori Mal College, PGDAV College and Lakshmbai College participated in this camp and represented the University.

National Voters Day: 25 January 2020

In order to strengthen the Democratic norms in the volunteers, National Voters Day was celebrated on 25 January 2020. A pledge was taken by the volunteers to uphold the spirit of democratic tradition and for ethical electoral participation.

Inter State Tribal Youth Exchange Programme 2020

Inter State Tribal Youth Exchange Programme was held from 2 March 2020 to 8 March 2020 at Don Bosco Institute, Kharguili, Guwahati (Assam). NSS Volunteers from Bharati College, Gargi College, Ramjas College and Atma Ram Sanatan Dharma College participated in the Programme.

Orientation on We Plant Programme

An Orientation on We Plant Programme was organized by NSS Centre University of Delhi on 12 March 2020 in which NSS Volunteers of various colleges participated. To learn about the importance of nature in our life was the motive of the Programme.

Special Camps NSS

NSS Special Camps were Organized in the Following Colleges

Atma Ram Sanatan Dharma College: 24-30 December 2019

Kirori Mal College: 10-16 October 2019

Sri Aurobindo College: 4-10 October 2019

Shaheed Bhagat Singh College (Evening): 20-26 February 2020

Shaheed Rajguru College of Applied Sciences: 17-23 December 2019

Swami Shraddhanand College: 11-17 October 2019

NON-COLLEGIATE WOMEN'S EDUCATION BOARD

NCWEB was established in September 1944 under DU Act 1943. The board facilitates the girl students to graduate with a University of Delhi degree using Non- Collegiate teaching format. NCWEB has emerged as an important academic option for the female students. Board had started with three students and at present, It is catering the need of approx. 32,000 students. There are UG courses being taught in 26 DU NCWEB teaching centres. These centres are within Delhi area, fulfilling the academic needs of the students. Apart from UG centres, one PG centre is situated in Tutorial Building, Arts Faculty. There are 20625 students in B.A.(Part I, II and III), 11069 in B.Com (Part I, II & III) and 936 in PG course Part I & II). Approx. 1250 guest lecturers were appointed for teaching at UG Centres. For PG students, 35 Associate Professors/Assistant Professors had been appointed as per the recommendation of the Selection Committee.

Major Activities and Achievements

Admission Process 2019-20: Complete admission process became online. Registration as well as admission form was filled through online process. A separate Grievance Addressal mechanism was

introduced for the first time for NCWEB students. 100% seats were filled under SC category in UG Admissions. The seats were enhanced by 10% due to the first phase implementation of EWS reservations as per the directive of Govt. of India. Integration with CBSE was successfully achieved for the online verification of candidates' marks and other particulars. NCWEB moved from annual mode to Semester mode (CBCS based) in 2019-20 academic session in Under Graduate courses.

Academic cum Cultural activities: Two-Day Orientation Programme for the 1250 guest Faculty was organised on 31-10-2019 and 05-11-2019. Vivekanand Jayanti was Celebrated by NCWEB, in collaboration with School of Open Learning and Gandhi Bhavan on 22 January 2020.

Facilities

Pilot projects for providing job placements to NCWEB girls were held at Rajdhani College Centre (28 Jun 2019) and Keshav Mahavidyalya (9 November 2019) which was fairly successful.

For the first time, Two-Day Mega Placement Drive for the students of Non-Collegiate Women's Education Board was held on 18-19 February 2020 where two thousand five hundred NCWEB Girls registered, 372 girls were selected and 500 were shortlisted for final selection round. 45 Companies had participated in the placement drive.

Around approx, 1670 books (free of cost) had been provided to the students during this year.

Financial aids of Rs. 3000/- provided to 686 needy and deserving students during this year 2019-20.

Other Significant Information

COVID 19 – Teaching and Learning at NCWEB

Institutional e-mail id created for all the 1250 guest Faculty.

NCWEB Teaching Learning Facilitation Committee was formed on 1 April 2020 to arrange for virtual platform so as to maintain teaching learning process for NCWEB students.

Two-day online 'ICT Tools for Teaching Learning' Workshop was held on 21-22 April 2020 to facilitate the Guest Faculty of NCWEB.

During the Lockdown period, NCWEB successfully organised Online teaching for the students using Google platform provided by the University of Delhi.

Online feedback sessions were organised with the student representatives of NCWEB from the 26 UG Centres and PG Centre to know about their difficulties and challenges.

Online academic and cultural activities were organised by the various Centres like poetry recitation, essay writing and many more activities for the students.

NCWEB organised two online Webinar in collaboration with India Co-Win Action Network(I-CAN) on following topics -

“Women's Health and Wellness in the times of Lockdown” where the Chairperson of Brain Behaviour Research Foundation of India Dr. Meena Mishra interacted with the students.

“Career Opportunities and Challenges for Women Post Covid-19” where Dr. Roma Kumar, Senior Consultant with Max Hospitals interacted and answered students' queries.

PGDAV Centre organised a Webinar series for faculty and students on various contemporary social, economic, environmental issues between 2 May- 1 June 2020.

In the direction to achieve a new horizon to the women's education, Board is taking every step to reach its goal.

TEACHING CENTRES OF NCWEB

ADITI MAHAVIDYALAYA
ARYABHATTA COLLEGE
BHAGINI NIVEDITA COLLEGE
BHARATI COLLEGE
COLLEGE OF VOCATIONAL STUDIES
DR. BHIM RAO AMBEDKAR COLLEGE
DEEN DAYAL UPADHYAY COLLEGE
HANSRAJ COLLEGE
JANAKI DEVI MEMORIAL COLLEGE
JESUS & MARY COLLEGE
KALINDI COLLEGE
KESHAV MAHAVIDYALAYA
LAKSHMIBAI COLLEGE
MAHARAJA AGRASEN COLLEGE
MAITREYI COLLEGE
MATA SUNDRI COLLEGE
MIRANDA HOUSE
MOTI LAL NEHRU COLLEGE
PGDAV COLLEGE
RAJDHANI COLLEGE
RAMANUJAN COLLEGE
SATYAWATI COLLEGE
SRI AUROBINDO COLLEGE
SGGSC OF COMMERCE
SPM COLLEGE
VIVEKANANDA COLLEGE
PG TEACHING CENTRE

STUDENTS' WELFARE OFFICE

Major Activities and Achievements

The Dean Student's Welfare Office has been undertaking following activities on Annual basis.

Admission: The DSW Office organises counselling activities every year by the way of conducting Open Days sessions to guide students with the nuances of admission process. Similarly, it sets up Help Desks at various centers across Delhi to eliminate undesirable elements from disseminating wrong/ inadequate information to the aspiring candidates. The Help Desk continues to function during the entire duration of the admission 2019 – 20.

Grievance Redressal: DSW Office ensures to resolve all problems/issues that students seeking admissions at the University of Delhi and its colleges might possibly confront with. To that endeavour and commitment modalities and strategies periodically brought out and stressed on. Pertinent is to submit that the DSW Office continuously collaborates with UGC portal and respond quickly to the queries raised by students. The Grievance Redressal of student grievances, Prevention of sexual harassment and ragging cases during the year 2019-20 are given below:

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
2675	2675	105 days

Placement & Internship Opportunity: The Central Placement Cell (CPC) of University of Delhi comes within the preview of DSW Office and organises various Internship and capacity building/skill enhancement programmes for under graduate and Post graduate students. It is also a platform to facilitate students from different colleges and streams to get recruitment opportunities in the illustrious industries across the world.

Cultural Counselling: Cultural Council is an important wing of DSW Office and its primary function is to encourage and promote young interested and talented students at the university level to understand the culture of pan Indian community. Towards that endeavour the cultural council under the aegis of DSW Office organises various cultural programme with the overarching concern of promoting inclusivity.

The DSW Office has also initiated several new programmes annually keeping in mind the interest of the student’s community. Some notable ones of the many are:

EK BHARAT SHRESTHA BHARAT: Dean Student’s Welfare Office is the nodal office for handling and coordinating activities under this programme. The coordination is done both with the College’s and the MHRD. In the academic year 2019-20 the modalities for conducting were slightly altered under instructions received from the MHRD and now the University of Delhi is organizing the same in association with the Sikkim University.

STRESS MANAGEMENT PROGRAMME: In order to energise students and feel them rejuvenated, the central placement cell on 18th September organised a session on stress management in association with ethic craft which is a youth wing of Ishkon. The basic purpose was to empower the youth on matters of values and social well-being. This workshop was much appreciated and attended by approximately 550 students and faculties.

In order to motivate and keep them engaged the Central Placement Cell also organized several counseling sessions under the aegis of Dean Students Welfare Office for students as well as faculty members of the University of Delhi.

UNIVERSITY GUEST HOUSE

Major Activities and Achievements

The University Guest House is located near Gate No. 01 of the University. It offers a very beautiful view of its lawn on both side Garden cleaning drive from time to time. The Guest House caters to the needs of major academic meetings. A number of examiners and visiting scientist are provided hospitality. The staff's behavior is very nice, politeness and cooperative with the Guests/visitors. They provide very good foods to the Guest.

Facilities

The University Guest House has 33 rooms in the main building and 06 Bamboo Cottage rooms with attached bathroom, phone, TV etc. Two persons can stay in one room.

Guest House provides free internet and Wi-Fi facility to the room guests.

It has a kitchen to provide safe, healthy, hygienic and delicious food.

It has a clean and specious dining hall with the sitting capacity of 35-40 persons.

It has a Lounge with the mike and projector facilities for get-together with the sitting capacity of 70-80 persons.

It has also a small Committee Room for meeting around 10-12 persons.

Other Significant information

The University Guest House provided all the meals to room guests & special catering arrangements for Breakfast/Lunch/Dinner/High Tea for programs like Conference/Seminars/Retirement Parties/Get-together etc.

ACADEMIC CENTRES

AGRICULTURAL ECONOMICS RESEARCH CENTRE

Major Activities and Achievements

AERC, Delhi continued the research and policy communication work during 2019-20. The research staff crunch is still persistent at the centre. There have been contributions in the form of research reports, journal publications, book, presentations in conferences and inputs to high level committees by the faculty. Honorary Director, Prof. C. S. C. Sekhar completed his term in September 2019. The Centre welcomed Prof. P. K. Joshi as the new Honorary Director of the centre (former Director for South Asia, International Food Policy Research Institute). Dr. Harsha Vardhana Singh, (former Deputy Director General of WTO, Geneva) completed his term as Chairperson of the Governing Body of the centre in March 2020 and the extension is under process.

Honours/Distinctions

Prof. P. K. Joshi

Awarded with Lifetime Achievement Award by the A4 of the G. B. Pant University of Agriculture and Technology, Pant Nagar, Uttarakhand.

Awarded the Global Leadership Award by the Indian Chambers Food and Agriculture, New Delhi.

Publications

Bathla, Seema, Joshi, P. K. and Kumar, Anjani. 2020. *Agricultural Growth and Rural Poverty Reduction in India*. Springer, UK. ISBN: 978-981-15-3583-3.

Kumar, Anjani, Tripathi, Gaurav and Joshi, P.K. 2020. Adoption and impact of modern varieties of paddy in India: evidence from a nationally representative field survey. *Journal of Agribusiness in Developing and Emerging Economies*. 2020.

Singh, K.P., Nandi Negi and Durga Prasad. 2019. *Research in Library and Information Science with reference to Panjab University and Guru Nanak Dev University: An Analytical Study*. In *Rethinking Libraries and Librarianship*. Bookwell: Delhi. P 212-222. ISBN: 978-93-86578-37-2

Singh, KP and Nandi Negi. 2020. *Research in Library and Information Science in the University of Delhi (1957-2018): An Analytical Study*. *SRELS Journal of Information Management*. 57(2) 2020; 101-106.

Varshney, D., Joshi, P. K., Roy, D., & Kumar, A. (2020). PM-KISAN and the Adoption of Modern Agricultural Technologies. *Economic & Political Weekly*, 55(23), 49.

Research Projects

Completed

Study on the functioning of the Direct Benefit Transfer (DBT) at retail points – The study undertakes a primary data-based analysis of fertilizer subsidy system in Haryana,

Ongoing

Harvesting and Transportation costs of sugarcane for Commission for Agricultural Costs and Prices (CACAP), GoI –There is no reliable data on the transportation and harvesting costs for sugarcane crop in the country at present. The present study is a step to create a reliable database and develop a scientific methodology to estimate the harvesting and transportation costs of sugarcane.

Continuous Village Survey (CVS) – CVS attempts to study the changing dynamics of rural transformation by studying a village economy at periodic intervals of five years. The present study is the first in this series.

Assessment of Feed and Fodder in all states/UTs – The study attempts to generate reliable estimates of feed and fodder availability in different states.

Seminars Organized

Prof. P. K. Joshi - Loan waiving vs Income Support Schemes: Challenges and Way Forward. Brain Storming Session organized for the National Academy of Agricultural Sciences, New Delhi.

Seminar/Conferences/Workshops Presentation and participation (National/ International)

Prof. P. K. Joshi

Panellist in the Panel Discussion on ‘*Doubling Farmers Income*’ organized by the Sharda University, 15 October 2019.

Delivered keynote address on ‘*Transforming Indian Agriculture*’ in the *National Seminar on Challenges and Opportunities in Indian Agriculture*, organized by the Garhwal University, Srinagar. 12-13 October 2019.

Delivered Dr V. S. Vyas Memorial Lecture on ‘Transforming Agricultural Marketing in India’, in the *Annual Conference of the Indian Society of Agricultural Marketing*, 8 November 2019. Guntur, Andhra Pradesh.

Delivered Chandrababu Naidu Endowment Lecture on ‘Future of Indian Agriculture’ organized by the *Indian Economic Association*, Raipur on 27th December 2019.

Chaired the panel discussion on ‘Direct Cash Transfer of Fertilizer Subsidy’ Organized by the *International Food Policy Research Institute and the Indian Economic Association*, Raipur on 28th December 2019.

Prof. C. S. C. Sekhar

“Improving farmers’ income: Policy options and challenges”, *India Agricultural Outlook Forum 2019*, A.P. Shinde Hall, NASC Complex, Pusa Campus, New Delhi, 26-27 September, 2019

Panelist in “*Packaging to unpack agricultural value*”, *CII Annual Session, India 5.0: India @75 and Beyond*, 4-5 April 2020, New Delhi.

Dr. Yogesh Chandra Bhatt

“*Methodology Workshop on Village Survey Study*” at Agricultural Economics Research Centre, Santiniketan, Visva-Bharati, West Bengal, September 29-30, 2019.

“*Methodology workshop for the MoA&FW commissioned studies for the year 2019-20*” at ADRTC, ISEC, Bangalore, Karnataka, October 17-19, 2019.

Number of M.Phil/Ph.D. Degrees Awarded

Prof. C. S. C. Sekhar - Ph.D. supervision (at the Institute of Economic Growth): Ms. BislaRajoria; Topic: Non-Farm Income: Determinants and Inequalities in Rural India

Faculty Strength

01(full time) + Honorary Director

Membership of Committees

Prof. P. K. Joshi

Member, Research Advisory Committee of the ICAR-Agriculture Technology Application Research Institute for three years.

Member, Technical Advisory Board of BAIF, Pune.

Member, External Advisory Board of the World Bank and ICAR implemented National Agriculture Higher Education Project, New Delhi.

Member, Advisory Committee of the India Human Development Index, National Council of Applied Economic Research, New Delhi.

Member, Steering Committee on the Transforming Indian Agriculture of the UN Food and Agriculture Organization, New Delhi.

Member, Committee of RKVY-RAFTAR, Ministry of Agriculture and Farmers’ Welfare to select the Start-ups in Agriculture. Government of India, New Delhi.

Prof. C. S. C. Sekhar

Member, *Sub-Group of Agricultural Commodities for Revision of WPI*, 2019, Ministry of Commerce & Industry, GoI

Member, *Working Group for MSP fixation of small millets*, 2019, Ministry of Agriculture & Farmers Welfare, GoI

Member, 5th Common Review Mission, Ministry of Rural Development & Panchayati Raj, GoI

Teaching/Training/Organizing Activities

Prof. C. S. C. Sekhar - Delivered lectures to probationers of Indian Economic Service (2018 Batch).

Articles in the Media**TV Talk**

Prof. P. K. Joshi - One of the panelists in 'Issues for budget in agriculture' Rajya Sabha TV. 14th February 2020.

CENTRE FOR DETECTOR AND RELATED SOFTWARE TECHNOLOGY**Major Activities and Achievements**

Centre was earlier involved in the major discovery of Higgs Boson in 2012 in the CMS Experiment at CERN, Geneva, Switzerland and in 2015-16 it continued its association with the CMS experiment. Multi-strip Si sensors, which are designed, developed, and fabricated in collaboration with BEL, Bengaluru were characterized at KIT, Germany. These are state-of-the-art detectors and are developed almost for the first time in India. Centre is gearing up to become first operational sensor qualification centre in Asia (and amongst six in world) to qualify and characterize silicon sensors for the Phase 2 upgrade of the CMS Experiment at CERN.

Publications (Total Publications: 88 during this period, selected few are given below)

1. Albert M Sirunyan et al. (2020). Measurements of $t\bar{t}H$ production and the CP structure of the Yukawa interaction between the Higgs boson and top quark in the diphoton decay channel. Measurements of $t\bar{t}H$ Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel *Physics Review Letters*. 125 no.6, 061801.
2. Albert M Sirunyan et al. (2020). Measurement of the cross section for $t\bar{t}$ production with additional jets and b jets in pp collisions at $s\sqrt{s}=13$ TeV *Journal of High Energy Physics* 2007 125.
3. Albert M Sirunyan et al. (2020). Study of central exclusive $\pi^+\pi^-\pi^+\pi^-$ production in proton-proton collisions at $s\sqrt{s}=5.02$ and 13 TeV. *Eur.Phys.J. C80 no.8*, 718.
4. Albert M Sirunyan et al. (2020). Pileup mitigation at CMS in 13 TeV data. *JINST* 15 no.09, P09018.
5. Albert M Sirunyan et al. (2020). Measurement of single-diffractive dijet production in proton-proton collisions at $s\sqrt{s}=8$ TeV with the CMS and TOTEM experiments. *Eur.Phys.J. C80 no.12*, 1164.
6. Albert M Sirunyan et al. (2020). Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $s\sqrt{s}=13$ TeV and constraints on anomalous quartic couplings. *Journal of High Energy Physics* 2006 076.

7. Albert M Sirunyan et al. (2020). A measurement of the Higgs boson mass in the diphoton decay channel. *Physics Letters B* 805 135425.
8. Albert M Sirunyan et al. (2020). Measurement of the $YY(1S)$ pair production cross section and search for resonances decaying to $YY(1S)\mu^+\mu^-\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s}=13$ TeV. *Physics Letters B* 808 135578.
9. Albert M Sirunyan et al. (2020). Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. *Eur.Phys.J. C* 80 (2020) no.8, 752.
10. Albert M Sirunyan et al. (2020). Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $s\sqrt{s}=13$ TeV. *Journal of High Energy Physics* 2007 (2020) 126.
11. Albert M Sirunyan et al. (2019). Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. *Journal of High Energy Physics* 2005 (2020) 032.
11. Albert M Sirunyan et al. (2019). Constraints on the $\chi_{c1}\chi_{c1}$ versus $\chi_{c2}\chi_{c2}$ Polarizations in Proton-Proton Collisions at $s\sqrt{s}=8$ TeV. *Physics Review Letters* 124 (2020) no.16, 162002.
13. Albert M Sirunyan et al. (2019). Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets. *Physics Review Letters* 123 (2019) no.24, 241801.
14. Albert M Sirunyan et al. (2019). Study of the $B^+\rightarrow J/\psi\Lambda^0$ and $B^+\rightarrow J/\psi\Lambda^0 p$ decay in proton-proton collisions at $s\sqrt{s}=8$ TeV. *Journal of High Energy Physics* 1912 (2019) 100.
15. Albert M Sirunyan et al. (2019). Measurement of the top quark polarization and $t\bar{t}$ spin correlations using dilepton final states in proton-proton collisions at $s\sqrt{s}=13$ TeV. *Physical Review D* 100 (2019) no.7, 072002.
16. Albert M Sirunyan et al. (2019). Search for MSSM Higgs bosons decaying to $\mu^+\mu^-\mu^+\mu^-$ in proton-proton collisions at $s\sqrt{s}=13$ TeV. Search for MSSM Higgs bosons decaying to $\mu^+\mu^-$ in proton-proton collisions at $s=13$ TeV. *Physics Letters B* 798 (2019) 134992.
17. Albert M Sirunyan et al. (2019). Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $s\sqrt{s}=13$ TeV. *Physical Review D* 100 (2019) no.7, 072007.
18. Albert M Sirunyan et al. (2019). Combined search for supersymmetry with photons in proton-proton collisions at $s\sqrt{s}=13$ TeV. *Physics Letters B* 801 (2020) 135183.
19. Albert M Sirunyan et al. (2019). Search for pair production of vectorlike quarks in the fully hadronic final state. *Physical Review D* 100 (2019) no.7, 072001.
20. Albert M Sirunyan et al. (2019). Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $s\sqrt{s}=13$ TeV. *Physics Letters B* 797 (2019) 134876.
21. Albert M Sirunyan et al. (2019). A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV. *Eur.Phys.J. C* 80 (2020) no.3, 237.
22. Albert M Sirunyan et al. (2019). Production of $\Lambda^0 c^+ \Lambda^0 c^+$ baryons in proton-proton and lead-lead collisions at $s\sqrt{s}=5.02$ TeV. *Physics Letters B* 803 (2020) 135328.

23. Albert M Sirunyan et al. (2019). Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $s\sqrt{s} = 13$ TeV. *Journal of High Energy Physics* 1911 (2019) 082.
24. Albert M Sirunyan et al. (2019). Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. *Physics Letters B* 798 (2019) 134952.
25. Albert M Sirunyan et al. (2019). Search for Higgs and Z boson decays to $J/\psi\psi$ or YY pairs in proton-proton collisions at $s\sqrt{s} = 13$ TeV Search for Higgs and Z boson decays to J/ψ or Y pairs in the four-muon final state in proton-proton collisions at $s=13$ TeV. *Physics Letters B* 797 (2019) 134811.

Research Projects

- a. DST Major Research Project, 2014-2020, *Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization*, Dr. Kirti Ranjan, Rs. 117300000.
- b. DST Major Research Project, 2014-2020, *Updating and Operation of Regional WLCG Grid System*, Dr. Kirti Ranjan, Rs. 2530000.
- c. DST Major Research Project, 2013-2020, *R&D efforts by University groups for INO Project*, Dr. Md. Naimuddin, Rs. 17841000.
- d. DST research project, bilateral Indo-Italy, *Simulation studies and tests to develop radiation tolerant silicon detectors for High luminosity colliders No. INT/Italy/P-10/2016 (ER)* Dr. Ashutosh Bhardwaj

Conferences Organized

- Collaboration wide national India-CMS meeting in August 2019

Other Inter-Institutional Collaboration

- e. All Research Projects are inter-institutional projects.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: Submitted: 3

CENTRE FOR ENVIRONMENTAL MANAGEMENT OF DEGRADED ECOSYSTEMS

Major Activities and Achievements

The thrust areas of the Centre include action research in addressing contemporary environmental and ecological challenges that are threatening ecosystems and quality of life and capacity building in action research. CEMDE has been active in the area of biological invasions, ecological restoration of degraded ecosystems and conservation of biodiversity. Contributed to the understanding of mechanisms through which naturalized and/or nonnative plants achieve their competitive or general ecological success. Doctoral students of the Director are working on the invasion ecology of several exotic species. During 2017-18 the centre has undertaken the ecological restoration of mined out areas in coalfields of Coal India Limited at Dhanbad and Ranchi. The 4-year old restored sites harbour tropical deciduous forests/ecosystems. The centre has also developed a successful strategy for the management of *Lantana* – an invasive alien species – in protected areas. As a part of rejuvenation of lakes and rivers, the Centre has developed constructed wetland system for in-situ biological remediation of sewage. The design developed has been widely used across the country.

Publications

Essl F, Dawson W, Kreft H, Pergl J, Pyšek P, van Kleunen M, Weigelt P, Mang T, Dullinger S, Lenzner B, Moser D, Maurel M, Seebens H, Stein A, Weber E, Chatelain C, Inderjit, Genovesi P, Kartesz J, Morozova O, Nishino M, Nowak P, Pagad S, Shu W, Winter M. 2019. Drivers of the relative richness of naturalized and invasive plant species on earth. *AOB PLANTS*, 11(5), plz051.

Measey J, Visser V, Dgebuadze Y, Inderjit, Li B, Dechoum MS, Ziller SR and Richardson DM. (2019) The world needs BRICS countries to build capacity in invasion science. *PLOS BIOLOGY* 17(9): e3000404.

Slate M.L., Tsombou F. M., Callaway R.M., Inderjit and El-Keblawy A. A. 2020. Exotic *Prosopis juliflora* suppresses understory diversity and promotes agricultural weeds more than a native congener. *PLANT ECOLOGY* 221, 659-669.

van Kleunen M, Pyšek P, Dawson W, Essl F, Kreft H, Pergl J, Weigelt P, Stein A, Dullinger S, König C, Lenzner B, Maurel N, Moser D, Seebens H, Kartesz J, Nishino M, Aleksanyan A, Ansong M, Antonova LA, Barcelona JF, Breckle SW, Brundu G, Cabezas FJ, Cárdenas D, Cárdenas-Toro J, Castaño N, Chacón E, Chatelain C, Conn B, de S. Dechoum M, Dufour-Dror JM, Ebel AL, Figueiredo E, Fragman-Sapir O, Fuentes N, Groom QJ, Henderson L, Inderjit, Krestov P, Kupriyanov A, Masciadri S, Meerman J, Morozova O, Nickrent D, Nogan N, Nowak A, Patzelt A, Pelter PB, Shu WS, Thomas J, Uludag A, Velayos M, Verkhosina A, Villaseñor JL, Weber E, Wieringa J, Yazlık A, Zeddani A, Zykova E and Winter M. 2019. The Global Naturalized Alien Flora (GloNAF) database. *ECOLOGY*, 100(1) e2542.

Research Projects

Other projects at CEMDE sanctioned to Prof. C.R. Babu:

(i) Funding Agency: Delhi Development Authority (DDA)

Year/ Period: 2019-2020

Title: Biodiversity Parks Programme

Amount Sanctioned: Rs. 11,00,00,000/- (approx.)

(ii) Funding Agency: NABARD

Technical Guidance from CEMDE, University of Delhi

Year/ Period: 5 years project starting from 2020

Title: Climate resilience and livelihood improvement of vulnerable communities implemented through

NABARD: National Adaptation Fund of MoEF&CC's Multistate Project on "Restoration of Degraded Landscapes to Natural State of Ecosystem for Climate Resilience and Livelihood of Vulnerable Communities"

Amount Sanctioned: Rs. 1,32,30,000/-

Seminar/Conference Presentations

Delivered invited lecture, "Urban invasions" at the GUBIC meeting, University of Toronto, **Canada**, June 17-21, 2019

Delivered invited lectures at webinars organized by different colleges of University of Delhi on Environment and Ecology related topics.

National/International Collaboration

University of Toronto, Canada: A research student working under Prof Inderjit has a co-supervisor from the University of Toronto.

University of Alberta, Canada: Research project collaboration

Extension and Outreach Activities

In joint collaboration with Delhi Development Authority the CEMDE has been developing and managing seven Delhi Biodiversity Parks- the first of its own kind in the world and these are rendering a wide range of ecological services to the City and its citizens. The DDA's Biodiversity Parks Programme is largest outreach activity ever undertaken by any University in the world. The Biodiversity Parks have become hub for promoting environment awareness, environment education and nature conservation areas. Undergraduate students of the Delhi University visit Biodiversity parks to learn plant biodiversity as a part of compulsory environmental education.

The Centre has been working on bioremediation of waste water (both domestic sewage and industrial effluents) using constructed wetland systems. The constructed wetland systems designed by the Centre has been widely adopted by State Pollution Control Boards across the country.

As a part of rejuvenation of rivers across India, the Hon'ble NGT ordered CPCB to prepare 'Guidelines for Setting Up of Biodiversity Parks along the Floodplains of Rivers in India, including river Ganga' with Professor C. R. Babu as a member of the Committee. The Guidelines was prepared and approved by Hon'ble NGT and is being adopted by different States as a part of rejuvenation of rivers. The CPCB is printing the Guidelines for distribution among stakeholders.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: One student submitted Ph. D. thesis (registered at Department of Environmental Studies).

Faculty Strength(permanent)

Professor: One (Inderjit Singh)

Professor Emeritus (C.R. Babu)

Non-teaching staff: Four

Other Significant Information

Prof. C.R. Babu is part of several task force committees at the Ministry of Environment, Forest and Climate Change, Department of Biotechnology and other agencies. Prof. Inderjit is part of several task force committees at the Department of Biotechnology.

CENTRE FOR GENETIC MANIPULATION OF CROP PLANTS

Major Activities and Achievements

Major activity of the Centre has been on genetic improvement of oil seed mustard (*Brassica juncea*) through conventional and molecular breeding. It involves extensive work on field breeding, application of microspore-derived doubled haploids (DH) in breeding, transgenic development and application of

molecular mapping and genome sequencing in marker-assisted breeding. The work has led to the development of some CMS-based and GM-based productive hybrids, several pure lines with improved quality and white rust resistance lines and identification of some promising combiners for heterosis breeding. The Centre has sequenced the genome of ten important oilseed mustard lines which will help in identification of candidate genes for some traits of importance and also help in diversification of important QTL and genes.

Publications

Arora, H., Padmaja, K. L., Paritosh, K., Mukhi, N., Tewari, A. K., Mukhopadhyay, A., ... & Pental, D. (2019). BjuWRR1, a CC-NB-LRR gene identified in Brassica juncea, confers resistance to white rust caused by *Albugo candida*. *Theoretical and Applied Genetics*, 132(8), 2223-2236.

Bhayana, L., Paritosh, K., Arora, H., Yadava, S. K., Singh, P., Nandan, D., ... & Pental, D. (2020). A mapped locus on LG A6 of Brassica juncea line Tumida conferring resistance to white rust contains a CNL type R gene. *Frontiers in plant science*, 10, 1690.

Harper, A. L., He, Z., Langer, S., Havlickova, L., Wang, L., Fellgett, A., ... & Bancroft, I. (2020). Validation of an Associative Transcriptomics platform in the polyploid crop species Brassica juncea by dissection of the genetic architecture of agronomic and quality traits. *The Plant Journal*, 103(5), 1885-1893.

Paritosh, K., Pradhan, A. K., & Pental, D. (2020). A highly contiguous genome assembly of Brassica nigra (BB) and revised nomenclature for the pseudochromosomes. *BMC genomics*, 21(1), 1-12.

Paritosh, K., Yadava, S. K., Singh, P., Bhayana, L., Mukhopadhyay, A., Gupta, V., ... & Pental, D. (2019). A chromosome-scale assembly of allotetraploid Brassica juncea (AABB) elucidates comparative architecture of the A and B genomes. *bioRxiv*, 681080.

Extension and Outreach Activities

Four white rust resistant mustard lines developed through marker-assisted backcross breeding are being evaluated by All India Co-ordinated Research Project on Rapeseed and Mustard.

CENTRE FOR INNOVATION IN INFECTIOUS DISEASE RESEARCH, EDUCATION, AND TRAINING (CIIDRET)

Major Activities and Achievements

Centre for Innovation in Infectious Disease Research, Education, and Training (CIIDRET) was established under the ordinance XV-A of the University of Delhi in October 2015. As per its mandate, besides carrying out path-breaking Innovation-driven research, CIIDRET has been carrying out several outreach activities, which include interaction with college students of science stream to inspire them to take up research and Innovation as their career. CIIDRET has organized Public Lectures by international and national scientists who are leaders in their field in different areas of scientific research. CIIDRET has organized Industry-Academia Interaction through 'environment Guest Public Lecture Series', which includes lectures by Entrepreneurs and the facilitators of Innovation. CIIDRET has been providing state-of-the-art Proteomic and Genomic analytical facilities along with expert advice to scientists from both academia and Industry, and offers consultancy to the Biotech Industry. CIIDRET organizes Hands-on training courses covering different aspects of Genomics and Proteomics in collaboration with Industry Experts under the scheme 'Continuing Education and Skill Enhancement for Innovation in Biotechnology (CIIDRET-CESEIB). these courses are

attended by college students, graduate students, research scholars, scientists and teachers from colleges and universities.

Honors/Distinctions

Prof. Vijay K. Chaudhary Director, CIIDRET:

Is Co-Chairman of the DBT Task Force on “Infectious Disease Biology.”

Is Co-Chairman of the DBT NER Technical Expert Committee (TEC) Medical Biotechnology-II.

Is Member of Scientific & Technical Appraisal & Advisory Group (STAG), Medical Biotechnology, DBT.

Is Member, DBT Expert Group on Technology Transfer Organization (TTO).

Is a Mentor, Nexus @ American Center, New Delhi. (<https://startupnexus.net/mentors>).

Dr. Amita Gupta is Joint-Secretary of the Society for Bacteriophage Research and Therapy (SBRT).

Awards

“DBT-Biotech Product, Process Development and Commercialization Award 2019” to Vijay K. Chaudhary, Amita Gupta, Vaishali Verma for “A Phage-Displayed Naïve Human Antibody Library for the discovery of therapeutic antibodies”. This award carries a cash prize of Rs. 2 lacs and a plaque.

Publications/ Patents / provisional patents / technology transfers

Publications

Agarwal, G., Gupta, S., Gabrani, R., Gupta, A., Chaudhary, V. K., & Gupta, V. (2019). Virtual screening of inhibitors against Envelope glycoprotein of Chikungunya Virus: a drug repositioning approach. *Bioinformation*, 15(6), 439.

Ghildiyal, R., Gupta, S., Gabrani, R., Joshi, G., Gupta, A., Chaudhary, V. K., & Gupta, V. (2019). In silico study of chikungunya polymerase, a potential target for inhibitors. *VirusDisease*, 30(3), 394-402.

Nandi, I., Gupta, A., Chaudhary, V. K., Gupta, V., Gabrani, R., & Gupta, S. (2019). Expression, purification and functional characterization of recombinant hypervariable region (HVR) of Chikungunya virus nsP3 protein. *3 Biotech*, 9(6), 235.

Patents granted/ published

An antibody fragment library, and uses thereof; Vijay K. Chaudhary, Amita Gupta, Vaishali Verma. Indian Patent no. 320566 granted on 16th September 2019.

An antibody fragment library, and uses thereof; PCT application no. PCT/IN2018/050802. Publication No. WO/2019/106694 (06.06.2019)

A process for immobilizing polypeptides; PCT no. PCT/IN2018/050722; Publication No: WO/2019/092742 (16.05 2019).

Process for purifying emulsion PCR mixture, and implementations thereof; Vaishali Verma, Amita Gupta Vijay K. Chaudhary. PCT application no. PCT/IN2019/050742, (07.10.2019)

Posters/Oral presentations

NGS based characterization of nucleotide polymorphism in *Mycobacterium tuberculosis* H37Rv. Bhalla, N., Joshi, G., Das, S., Chaudhary, V.K., Gupta, A. at National Science Day Symposium held from 27-28 February 2020 at University of Delhi South Campus, New Delhi.

Phage-Displayed Human Antibody Library - A resource for discovery of next-generation therapeutics. Verma, V., Gupta, A., Chaudhary, V.K. at Global Bio-India 2019 held from 21-23 November 2019 at Aerocity, New Delhi. This Poster was awarded judged as the “Best Poster” with certificate signed by the Secretary, DBT, Govt. of India.

Conference/Workshop/Lectures Organized

Organised Students Winter Workshop on “Expression of Recombinant proteins” from December 17-21, 2019 at University of Delhi South Campus, New Delhi. In this, theory lectures covering expression of recombinant proteins and their applications were held. Hands-on training was provided for recombinant protein expression and SDS-PAGE. Western Blotting was demonstrated.

Organised lecture by Dr MalathiLakshmikumaran, Executive Director and Practice Head of Patents, Lakshmikumaran and Sridharan Attorneys, New Delhi titled “Inventions and Intellectual Property Protection: India and Abroad” on 15 July 2019, at 3.00 P.M at UDSC.

Organised One-day Science Communication Workshop on 15 July 2019 at University of Delhi South Campus along with Wellcome Trust DBT India Alliance.

Organized Teachers Summer Workshop on “Recombinant proteins: Expression, Purification, Characterization” from July 2-16, 2019 at University of Delhi South Campus, New Delhi. In this, theory lectures covering cloning, expression and purification of recombinant proteins, their applications, methods to study protein-protein interactions and protein characterization were held. Hands-on training was provided for recombinant protein expression, protein purification and characterization using SPR Technology on Biacore 3000.

Organized Summer Workshop on “Techniques for manipulation of nucleic acids for applications in Genomics”, from June 10-22, 2019 at University of Delhi South Campus, New Delhi. In this, Hands-on training was provided for isolation and purification of Chromosomal and plasmid DNA, and Automated Capillary based Sanger Sequencing

Presentation in Conferences

Prof. Vijay K. Chaudhary Delivered Science Day Lecture “Antibodies, Ek Naam, AnekKaam” at UDSC on 28th February 2020.

Prof. Vijay K. Chaudhary Chaired a session at National Symposium on Challenges in Snakebite management held at University of Mysore, Karnataka, December 16-17, 2019.

Prof. Vijay K. Chaudhary Delivered a lecture on “Recombinant Antibodies for Snakebite Treatment” at National Symposium on Challenges in Snakebite management held at University of Mysore, Karnataka, December 16-17, 2019

Prof. Vijay K. Chaudhary Chaired a session at Guha Research Conference-2019 (GRC-2019) held at Jaisalmer, Rajasthan, December 6-10, 2019.

Prof. Vijay K. Chaudhary Delivered Lecture “Phage Display- Based Technologies for Human Health” at INDO-US VACCINE ACTION PROGRAM (VAP), JOINT WORKING GROUP (JWG), Thirty First Meeting, November 15-16, 2019, New Delhi.

Prof. Vijay K. Chaudhary Delivered Foundation Day Lecture “Antibodies, Ek Naam, AnekKaam” at Institute of Advanced Study in Science and Technology (IASST), Guwahati, Assam on 3rd November 2019.

Prof. Vijay K. Chaudhary Delivered Plenary Lecture “Antibodies, Ek Naam, AnekKaam” at AMITY University Campus, Manesar, 4th September, 2019.

Prof. Vijay K. Chaudhary Delivered a Lecture “AN INDIGENOUS PHAGE-DISPLAYED NAÏVE HUMAN ANTIBODY (scFv) LIBRARY... A potential source of recombinant antibody-based therapeutics for human diseases including AMR, Sepsis and snake bite treatment!” at Cadila Zydus Ltd., Ahmedabad.

CENTRE FOR INTER-DISCIPLINARY STUDIES FOR MOUNTAIN & HILL ENVIRONMENT

Major Activities and Achievements

The Centre having made significant contributions in the field of environment impact assessment of energy sector and environmental sensitivity studies of river basins, Ministry of Power, Government of India recognized it as Centre of Excellence in 2001-2002. It was subsequently established as an R&D Centre to conduct studies related to issues of environment impact and environment management in the power sector. The Centre has so far conducted more than 60 studies related to environment impact assessment and biodiversity conservation across India. The Centre also provides expert advice and consultancy services to various institutions of Government of India, its PSUs and Private sector in the field of environment impact assessment and sustainable development. The Centre has a state-of-the-art infrastructure and vast expertise available in the area of Ecology, Biodiversity Conservation Management, Aquatic Ecology, Remote Sensing and Geographic Information System (GIS). The Centre has played key role in assisting Public and Private sector organizations in pursuing the goal of sustainable development.

The faculty members and scientists at the Centre are also engaged in full-time teaching programmes of the Department of Environmental Studies and guide research at Ph.D. level at the Centre.

Honors/Distinctions:

Professor Maharaj K. Pandit, Director

Ngee Ann Kongsi Distinguished Visiting Professor, National University of Singapore

Indian (INSA) representative at BRICS Academy of Sciences

Indian (INSA) representative at G20 Science Academies

Publications

Maharaj K. Pandit

Arora, J. et al. 2020. IAPT Chromosome data. *Taxon*(in press).

Bawa et al. 2020. China and India: Toward a sustainable world, *Science*, 369: 515.

Kaushik et al. 2020. *Paludisphaera soil sp. nov.*, a new member of the family Isosphaeraceae isolated from high altitude soil in the Western Himalaya. *Antonie Van Leeuwenhoek*, <https://doi.org/10.1007/s10482-020-01471-w>.

Manish, K. and Pandit, M.K. 2019. Identifying conservation priorities for plant species in the Himalaya in current and future climates: A case study from Sikkim Himalaya, India. *Biological Conservation*, 233, 176-184.

Pandit, M.K. 2020. The Himalaya should be a nature reserve. *Nature*, 583:9.

Number of Department Teachers serving as Editor(s)/Member (s) of Editorial Board: 01

Research projects:

Funding Agency	Year	Title	Amount Sanctioned (Rs in Lacs)
WAPCOS Ltd. Gurgaon	2019-20	Ecological Study for Upper Sileru Pump Storage Project (pre-monsoon), Andhra Pradesh	5.16
WAPCOS Ltd. Gurgaon	2019-20	Ecological Study for Upper Sileru Pump Storage Project (monsoon), Andhra Pradesh	5.16

Other Inter-institutional Collaboration

Ecological Surveys & River Basin Studies	WAPCOS Limited, Gurgaon
Biodiversity Studies	RS Envirolink Technologies, Gurgaon

Faculty Strength: Permanent/Temporary/Ad-hoc/Contract basis:

Permanent - 1; Contract basis - 2

CLUSTER INNOVATION CENTRE**Major Activities and Achievements**

Cluster Innovation Centre organized the pilot edition of TEDx, TEDxDUCIC on 24th August 2019 at Conference Centre, University of Delhi. The speakers were Dr. Jyoti Sharma, Prasanna Deshpande, Iresh Gupta, Debayan Dutta, Piyush Dhawan, Amrita Sarkar, Dutee Chand, Vidushi Marda, Sudarsan Pattnaik, Dr. Jawahar Suriseti, Syed Ahmed, Aditi Arora.

Rudrank Riyam, second year B.Tech student of CIC won the prestigious Apple WWDC Scholarship 2019. Vikas Kamboj, third year B.Tech student of CIC was selected for the prestigious Heidelberg Laureate Forum. Ashish jha, IVth year B.Tech student was awarded Best Alexa Community Evangelist of the year 2019 by Amazon Alexa.

Honours/Distinctions

Dr. JS Purohit was nominated as Subject coordinator (Biology), Vidyarthi Vigyan Manthan (an initiative of Vigyan Bharati, Vigyan Prasar (GOI) and NCERT for National level Science fair for school children) Academic committee for 2019-20.

Dr. JS Purohit was selected as Judge (from India) for the Global Innovation Undergraduate Awards (UA) organized by the world's leading undergraduate awards program, connecting and empowering the brightest students to inspire greatness, Dublin, Iceland for 2019-20.

Publications

Bagai, S., & Sharma, M. (2019). A numerical study of transient free convection from an axisymmetric body in a porous media saturated by nanofluid. *Journal of Nanofluids*, 8(6), 1345-1354

- Bagai, S., & Sharma, M. (2020). Numerical investigation of effect of variable viscosity on transient heat transfer over a non-isothermal axisymmetric body: nanoparticle volume fraction-dependent viscosity. *SN Applied Sciences*, 2(4), 1-13.
- Bagai, S., & Sharma, M. (2020). Unsteady Heat Transfer from a Non-isothermal Axisymmetric Body Immersed in Porous Media Saturated by Nanofluid. In *Advances in Fluid Mechanics and Solid Mechanics* (pp. 27-38). Springer, Singapore.
- Bhaduri., A., Shukla., A. (2019) Citizen Science as the New Face of Science Communication and Interdisciplinary Milieu. In *STEC 2019 proceedings, Teaching Learning Cell (TLC) of IIT BHU*. https://iitbhu.ac.in/contents/institute/central_facilities/tlc/doc/tlc_achivements_stec2019_proceedings.pdf
- Kaushik, M.*, Mahendru, S., Chaudhary, S., Kumar, M., & Kukreti, S. (2019). Prerequisite of a Holistic Blend of Traditional and Modern Approaches of Cancer Management. *Current Cancer Therapy Reviews*, 15(1), 56-64. <https://doi.org/10.2174/1573394714666180417160750>
- Kaushik, M., Chaudhary, S., Khurana, S., Mehra, K., & Kukreti, S. (2019). Decoding DNA Structure using NMR Spectroscopy. *Applications of NMR Spectroscopy: Volume 7*, 7, 144.
- Kaushik, M., * Raghunand, R., & Maheshwari, S. (2020). Exploring Promises of siRNA in Cancer Therapeutics. *Current Cancer Therapy Reviews*, 16(1), 29-35. <https://doi.org/10.2174/1573394715666190207130128>
- Kaushik. S., Kaushik. M., Barthwal. R., Kukreti S.* (2020). (2020) Self-association of Coralyne: An ordered thermal destacking, *Results in Chemistry* 100043. <https://doi.org/10.1016/j.rechem.2020.100043>
- Komal, Sonia, Kukreti, S., & Kaushik, M.* (2019). Exploring the potential of environment friendly silver nanoparticles for DNA interaction: physicochemical approach. *Journal of Photochemistry and Photobiology B: Biology*, 194, 158-165. <https://doi.org/10.1016/j.jphotobiol.2019.03.022>
- Kumar, S. (2020). An Assessment of Research Process Management Software Usage in Indian Higher Education. In *Decision Analytics Applications in Industry* (pp. 409-419). Springer, Singapore.
- Kumar, S., Singh, J., & Singh, O. (2020). Ensemble-based extreme learning machine model for occupancy detection with ambient attributes. *International Journal of System Assurance Engineering and Management*, 1-11.
- Misra, R., Menon, D., Arora, G., Virmani, R., Gaur, M., Naz, S., ... & Singhal, A. (2019). Tuning the Mycobacterium tuberculosis alternative sigma factor SigF through the multidomain regulator Rv1364c and osmosensory kinase protein kinase D. *Journal of bacteriology*, 201(7).
- Mittal, B., Verma, A. K., & Bagai, S. (2020). A Study of Crime in India Through Statistical Analysis. In *ICT for Competitive Strategies* (pp. 361-367). CRC Press.
- Neelam, Kaushik, M.* (2019). Physicochemical Interactions of APTS-ZnFe₂O₄ Nanoparticles with Bovine Serum Albumin (BSA): Biomedical Applications. *Journal of Nanoscience and Technology*, 5, 776-779. <https://doi.org/10.30799/jnst.242.19050409>
- Purohit, J. S., Singh, N., Hussain, S. S., & Chaturvedi, M. M. (2020). Attaining Epigenetic Rejuvenation: Challenges Ahead. In *Models, Molecules and Mechanisms in Biogerontology* (pp. 159-179). Springer, Singapore.

Rani, M., Kumar, K. and Singh, H.P. (2019). Motion/force control scheme for electrically driven cooperative multiple mobile manipulators. *Control Engineering Practice*, 88, 52-64.

Sahota, L., Arora, S., Singh, H.P. and Sahoo, G. (2020). Thermo-physical characteristics of passive double slope solar still loaded with MWCNTs and Al₂O₃-water based nanofluid. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2020.01.600>

Sarkar, N., Sharma, R. S., & Kaushik, M. (2020). Exploitation of antibiotics: Mechanism of resistance, consequences, challenges of conventional remediation, and promise of nanomaterials in mitigation. In *Nano-Materials as Photocatalysts for Degradation of Environmental Pollutants* (pp. 195-209). Elsevier. <https://doi.org/10.1016/B978-0-12-818598-8.00011-0>

Sarkar, N., Sharma, R. S., & Kaushik, M.* (2019). Exploring the Potential of DNA/RNA Aptamers in National Security. *National Academy Science Letters*, 43(2)1-4. <https://doi.org/10.1007/s40009-019-00815-z>

Sarkar, N., Sharma, R. S., & Kaushik, M.* (2020). Green synthesis and physicochemical characterization of nickel oxide nanoparticles: Interaction studies with Calf thymus DNA. *Luminescence*, 35(2), 178-186 <https://doi.org/10.1002/bio.3709>

Sharma, A. K., Singh, A. K., Yadav, A. K., Shukla, A., Krishan, K., Katiyar, S., Mir S., Parmar, A., Pathak, N., Bhaduri, A. (2020). Mapping Delhi's Weekly Markets: An Explorative Study of Hafta Bazaars. *Urbanisation*, 2455747120917584.

Singh, A., Neelam & Kaushik, M.* (2019). Physicochemical investigations of zinc oxide nanoparticles synthesized from *Azadirachta Indica* (Neem) leaf extract and their interaction with Calf-Thymus DNA. *Results in Physics*, 13, 102168. <https://doi.org/10.1016/j.rinp.2019.102168>

Singh, H. P., Jain, A., Singh, A. and Arora, S. (2019). Influence of absorber plate shape factor and mass flow rate on the performance of the PVT system. *Applied Thermal Engineering*, 156, 692-70.

Tanwar, S., Kumari P., (2020) 'X-FEM: An efficient algorithm for simulation of phase transition during prostate cryosurgery', *Computers & Mathematics with Applications*, 79 (8), 2119-2132.

Verma A.K., Dixit V.S. (2020) An Outlier Accuracy Improvement in Shilling Attacks Using KSOM. In: Choudhury S., Mishra R., Mishra R., Kumar A. (eds) Intelligent Communication, Control and Devices. *Advances in Intelligent Systems and Computing*, vol 989. Springer, Singapore

Yadav, N. (2020). Retinal blood vessels detection for diabetic retinopathy with Ridgelet transform and convolution neural network. *International Journal of Wavelets, Multiresolution and Information Processing*, 2050048.

Yadav, N., & Srivastava, T. (2020). Analysis of Error in Convolution Algorithm for Tomography in Discrete Spaces. *International Journal of Applied and Computational Mathematics*, 6(4), 1-15.

Yadav, N., Singh, A., & Kaushik, M.* (2020). Synthesis and characterization of hydrothermally synthesized superparamagnetic APTS-ZnFe₂O₄ nanoparticles: DNA binding studies for exploring biomedical applications. *Chemical Papers*, 74(4), 1177-1188. <https://doi.org/10.1007/s11696-019-00953-0>

Yadav., A., Bhaduri., A. (2019) Delhi's Hafta Bazaars: Markets That Survived the Rise and Fall of Empires, *Sahapedia*, <https://www.sahapedia.org/delhis-hafta-bazaars-markets-survived-rise-and-fall-empires>

Research Projects

Dr. JS Purohit has an ongoing DST-SERB EMR grant on Characterization of the H3 specific protease activity of the chicken liver GDH (2017-2020), 62.74 lakh

Dr. Mahima Kaushik has TARE (Teachers Associateship for Research Excellence) Grant as ‘Mentor’ from Science and Engineering Research Board of Dept. of Science and Technology (DST, Gov. of India) [project entitled- ‘Physicochemical Investigations of the Binding Interactions of NHE inhibitors (Rimeporide, Amiloride and Cariporide) with APOE3/APOE4 isoforms of human *APOE* gene’] [Eighteen Lakhs; Three years]

Dr. Sonam Tanwar has a Major research project (30th March, 2017 to 29th March, 2020) Project Title: Development of an optimal planning framework for cryosurgical treatment of a tumor tissue via mathematical modelling & numerical simulations. Project Grant: 20,26,885/-

National/International Conferences Presentation, Invited lectures

Mr. Anjani Kumar Verma

Invited as speaker at UGC Sponsored Seminar in SPMC University of Delhi on 28th February 2020

Dr. Asani Bhaduri

Successfully completed UGC-sponsored Refresher Course in Life Sciences with ‘A’ grade at CPDHE, University of Delhi, June 28- July 11, 2019.

Invited for Inaugural lecture “The Wild India: Camouflage, Photography, Documentation” for Synapse – The Zoological Society, Miranda House, University of Delhi, August 2019.

Participated in Entrepreneurship Development Program under Institution's Innovation Council (IIC MHRD) Innovation Ambassador Training Series at AICTE Headquarters, New Delhi on November 2nd-3rd, 2019.

Conducted workshop on Journalism and wildlife at Delhi School of Journalism, January 13, 2020.

Dr. Dorje Dawa

Presented paper of Climate Change, Tourism, and Urbanization: Cascading Impact on the Natural Resources, at Himalayan Institute of Archaeological and Allied Science, Leh Ladakh. March, 2020

Dr. Mahima Kaushik

Presented paper Singh, R. Kulshrestha, A. Pandey, M. Kaushik, A.K. Dhinda American Thoracic Society (ATS) international conference, Dallas, USA (17th-21st May, 2019)

Presented paper Sonia, S., Kukreti, M. Kaushik* National Seminar on Biophysics (BIOPHYSIKA-2019), at Jamia Millia Islamia, New Delhi (4th October, 2019). [Oral Talk] Exploring the Potential of CuO and CuO@APTES nanoparticles as Nanoprimers to Increase Seed Vigor of Model Legume *V. radiata*.

Participated and gave oral presentation N. Sarkar, R. S. Sharma, M. Kaushik* National Conference on the theme “Clean & Green Energy: The Chemical and Environmental Aspects” at the Bhaskaracharya College of Applied Sciences campus, University of Delhi, Delhi (26-27 Sept., 2019)

Dr Nirmal Yadav

Participated in Orientation program (OR-97) at C.P.D.H.E, University of Delhi (28th June-18th July, 2019)

Participated in refresher program in ‘Research Methodology’ at Jawahar Lal Nehru University, New Delhi (14th October-26th October, 2019)

Presented a paper entitled “Error Analysis and Imaging by Convolution Algorithm for Fan Beam Geometry with Discrete Radon Transform” in 3rd International Conference on Mathematical Modelling, Applied

Analysis and Computation -2020 (ICMMAAC 20), Online Conference Organized by Department of Mathematics, Faculty of Sciences JECRC University, Jaipur (Raj.), India from 7th August -9th August 2020.

Dr. Saleem Mir

Successfully Completed Faculty Development Programme, on E-Learning Platform, organised by Electronics and ICT Academy, IIT Guwahati, from 7th to 14th September 2020.

Successfully Completed 2-week Faculty Development Programme, on ICT based New Paradigms on E-Teaching and E-Learning: Digital Pedagogy, organised by Mata Sundri College, University of Delhi, from 15th to 30th September 2020.

Prof. Shobha Bagai

Conducted a workshop at Shyam Lal College on “Business Ideation Formulation” during the Young Entrepreneurship Convention on April 25th 2019

Gave an invited talk on “Modeling Natural Convective Flow Across Axisymmetric Bodies immersed in Porous Media saturated by Nanofluids”, Conference on Algebra, Analysis and Applications, Ambedkar University Delhi, 10th May 2019

Delivered a lecture “Innovative Teaching Pedagogy of Twety First Century” during the Faculty Induction Programme at Hansraj College on 19th June 2019.

Delivered a lecture “Mathematical Models in System Biology: Biochemical Kinetics” during the Faculty Development Programme "Understanding the Connection of Mathematics with the world around us: An Application Based Learning" at Hansraj College on 21st June 2019.

Delivered a lecture “Analysis of Dynamical Mathematical Models in System Biology” during the Faculty Development Programme "Understanding the Connection of Mathematics with the world around us: An Application Based Learning" at Hansraj College on 21st June 2019.

Delivered a lecture on “Reinventing the wheel – The calculus way” at Ambedkar University of Delhi on 20th Sept 2019.

Conducted a workshop of 100+ students of Hansraj College on “Linear Algebra and its application” on 23rd Sept 2019.

Delivered a talk on “Mathematical Modelling at UG Level” FDP on Recent Trends in Research Methodology, E-Content, Mathematical and Statistical Methods in Open Education World at Kalindi College on 19th Dec 2019

Expert panelist on the discussion: “Education in Today's Times for The World of Tomorrow” during the Education Summit on “Towards Meaningful Education: Redefining Goals and Pedagogies” organised by K R Mangalam University on 23rd Dec 2019

Delivered a talk on “From Tricks to Techniques in Mathematics” at Satyawati College on 10th Feb 2020

Delivered a talk on “Dynamical mathematical Models in System Biology and their Analysis” at Refresher Course in Computational and Mathematical Sciences at Jamia Millia Islamia on 12th Feb 2020

Delivered a talk on “Innovative Teaching Pedagogy of Twenty First Century” at Refresher Course in Computational and Mathematical Sciences at Jamia Millia Islamia on 12th Feb 2020.

Delivered a talk on “Reinventing the Wheel – The Calculus Way” at Supremum 2020, Kirorimal College on 18th Feb 2020

Delivered a talk on “Reinventing the Wheel – The Calculus Way” at Fractal 2020, Motilal Nehru College on 19th Feb 2020

Expert panelist on the discussion: “Higher Education: Challenges and Opportunities” during the LitFest, vasant Vihar on 23rd Feb 2020

Dr. Sonam Tanwar

Participated in Orientation program (OR-97) at C.P.D.H.E, University of Delhi (28th June-18th July, 2019)

Participated in refresher program in ‘Research Methodology’ at Jawahar Lal Nehru University, New Delhi (14th October-26th October, 2019)

Dr. Swati Arora

Impact of heat transfer coefficient on hybrid PVT system at International Conference on Emerging Advancement in Science & Technology (ICEAST) 10th India-Japan Science & Technology Conclave September 5-6,2019, Manekshaw Centre, New Delhi

Faculty Strength

Professor: 4; Associate Professor: 4; Assistant Professor: 14

Extension and Outreach Activities

Cluster Innovation Centre collaborated with the Commerce Department of Shyam Lal College, University of Delhi for National Conference and Young Entrepreneurship Convention on “Make in India – Towards growth and progress” April 2019.

A workshop on “Proof of Concept” for the selected teams of IDEA COMPETITION 2019 was organised with collaboration with SSCBS Innovation and Incubation Foundation (SIIF), Shaheed Sukhdev College of Business Studies. The workshop was convened by Prof Shobha Bagai (CIC) and Mr Naresh Priyadarshi (SSCBS), June 2019.

IQAC CIC organized a talk by Dr. Geetanjali Chawla, Welcome-DBT Intermediate Fellow at Regional Centre for Biotechnology, Faridabad, India on the topic "Extending healthy lifespan with dietary restriction and non-coding RNAs" on Wednesday 28th August at 4 pm in the Seminar Room.

Cluster Innovation Centre organised its annual Tech fest from 18th to 20th October 2019. The main events were Hackathon and Robotics competition. More than 100 teams participated in the events.

Dr. Asani Bhaduri was invited for Dudhwa National Park Summer Bird Count 6-8 June, 2019.

Dr. JS Purohit worked as resource person for Junior Science Olympiads, organized by HBCSE, TIFR, India for 2019-20.

Dr. JS Purohit worked as resource person for Sci-Connect, a science quiz competition for North East students of India, organized by Vigyan Prasara, India, for 2019-20.

DELHI UNIVERSITY COMPUTER CENTRE

Major Activities and Achievements

Delhi University Computer Centre (DUCC), acts as the epicenter to facilitate ICT Services across the University of Delhi. During the last one year (2019-2020), DUCC continued to strengthen ICT Infrastructure and Services for Offices, Faculties, Departments and Colleges of University of Delhi for the benefit of its all stakeholders. As the central hub for all the ICT related activities, DUCC provides the Internet and Wi-Fi connectivity across the University. The whole network has been redesigned and implemented to ensure maximum availability of network and services running on it. Wi-Fi system of DU enables internet access to all students/faculty/staff across a variety of devices like laptop, smart phones, tablets etc. As DUCC is also the Datacenter for hosting various services, various Servers are available to link up varied utilities and on-line applications of the DU, e.g. Examination application, DU results, e-mailing system, Library system, UG Admissions, FSR Admissions, PG Admissions MPhil/PhD Admissions, Recruitment etc. At present there are more than 40 servers having more than 100 Virtual Machine Instances and network equipment hosted at DUCC Datacenter. Apart from Datacentre DUCC also provides and manages critical services like e-mailing, DU main Web-Site, e-procurement & GeM, Biometric management and training (ranging from basic to advance courses). The DUCC takes pride in using open source technology to provide all services.

DUCC Digital Initiatives

Email System Integrated with GSuite

DUCC integrated the email services which are hosted in house over open source 'Zimbra' platform with G Suite. The user experience with regard to the availability of services and space requirements has increased manifold. All the stakeholders have access to all the services like Classroom, Google Meet, Drive, Sheets etc. which enable them to be part of the Online Teaching Learning process.

New Hosting Platform

In order to provide different departments/faculties/colleges better experience Web Host Manager (WHM) was installed and many of the online applications as well as websites were migrated to the said server. The WHM platform had provided a more secure and flexible platform to the users.

Automation of University Process

Online forms that were launched last year were further strengthened in order to cut down the manual intervention and to provide the services. The details are as follows:

Campus Wi-Fi Application

Campus Wi-Fi reset of password

Email Application

No Dues Certificate.

GeM User Registration

E-Procurement User Registration

Web-space Registration for Departments / Colleges/ Centres / Hostels

Faculty Web-Pages Registration

Medical Reimbursement

Bandwidth of 10 Gbps at Both the Campuses

The bandwidth utilization at both North & South Campus and associated colleges was utilized to its full capacity. The National Knowledge Network (NKN) continued to provide 10 Gbps bandwidth. University of Delhi continues to be among the highest utilizer of NKN resources across the country.

Campus Connect Project

With the grant received from MHRD for augmentation of Wi-Fi Network and to establish the robust backend, DUCC planned to reestablish the connectivity to all the departments and increase the terminated bandwidth from existing 1Gbps to 10Gbps. The bandwidth among the core switches and distribution switches is also planned to be increased from 10Gbps to 40 Gbps. All the buildings across the campus would be connected through hybrid network with ring architecture to ensure maximum availability of network. Every building will be part of the Ring and connected from two sides so that the network will remain available even if the network gets disrupted from one side.

Signing of MoU between Maitreyi College (MCN) and Delhi University Computer Centre (DUCC) and Started the Following Short-term Courses at Maitreyi College

“Basic Website Designing”

“Advanced Website Designing & Development”

Procurement of Campus-Wide MATLAB and Simulink Access for University of Delhi

University of Delhi offers MATLAB and Simulink product families for use by faculty, academic researchers and students.

Benefits of a Campus-Wide License

Includes all faculty, researchers, and students

Access at home and in the classroom, in lab and field research, and off-network

Installation on campus-owned machines, as well as faculty-owned and student-owned personal computers

Full suite provides the widest and most up-to-date array of products, supporting everything from introductory-level courses to advanced academic research

MATLAB Online provides access from a web browser

Optional add-on: Provide training for all your campus users with the MATLAB Academic Online Training Suite

Implementation of following UIMS Modules

DU Vendor Bill Tracking System

Enrollment Number Generation System

Online Fees

Admission Portals: Development started for Admission Portal of various UG / PG/ M.Phil / Ph.D. courses including Foreign Students and Faculty of Medical Sciences.

Existing Projects

University Information Management System

The objective is to provide flexible solutions with seamless integration of diverse processes to provide effective access of information to all the stakeholders of the University.

Modules

Academics – Admissions, Student Life cycle management, Examination, Training and Placement, Time Table, Online Attendance System, Enrollment No. generation system.

Finance and Accounts – Grants Management, Assets and Inventory, Research Projects Management, Online Fees, Vendor Bill Tracking Management System

HR and Payroll – Recruitment, Employee Information System, payroll, Leave Management

Administration – Estate Management, File Tracking, Grievance Management and Redressal, Legal Case Management.

Following Modules were Developed / Implemented During 2018-19

Online Fee Portal - new and robust Online Fees Portal in all Departments.

Vendor Bill Tracking – centralized system to enter and track bills at all stages.

Enrollment No. Generation System

Employee Profile

Time Table

Campus wide Wi-Fi at both North and South Campuses with AAA Authentication

Campus wide Wi-Fi was successfully launched and running across both North and South Campus. The service is available to faculty, student and staff of the University. At present all the faculty, staff and students who want to avail the Wi-Fi facility have been provided campus wide Wi-Fi access with individual login and password. The Wi-Fi setup has been built to have Authentication, authorization, and accounting (AAA) at individual internet user level. More than 6000 users already availed the Campus Wi-Fi facility and the count is increasing day by day.

Network Monitoring

In order to proactively monitor the Wi-Fi network, the monitoring software (Zabbix) is put in place which can help in proactive troubleshooting and help in maintaining maximum uptime for network, servers and applications.

College Network

The bandwidth of 100 Mbps continued for all the off campus colleges. In view of the requirement to maintain the maximum uptime of internet services, DUCC has taken strong steps to ensure that the college VPN connectivity should be in ring architecture. In case of disruption of VPN connectivity from one side the network remains available from other side of ring.

Colocation Server Hosting

Examination

Virtual Class Room

Cluster Innovation Centre

DU Community Radio

Delhi University Library System

Braille Library

School of Open learning

Virtual Learning Environment (vle)

Enrollment Data Management System (EDMS)

Live Webcasting on YouTube

Annual Convocation

97th Foundation Day of the University

Eminent Alumni Lecture Series

Distinguished Lecture Series

Archives of various past events

Websites and Department Websites Launched/Provisioned

Department of Sanskrit – <http://sanskrit.du.ac.in>

Department of History – <http://history.du.ac.in>

Department of Political Science – <http://polscience.du.ac.in>

Institute of Cyber Security and Law – <http://icsl.du.ac.in>

Delhi School of Journalism – <http://dsj.du.ac.in>

Department of Adult Education and Continuing Education – <http://dacee.du.ac.in>

International Relations – <http://ir.du.ac.in>

NCWEB – <http://ncweb.du.ac.in>

PG Men's Hostel – <http://pgmenhostel.du.ac.in/>

Various Faculty Pages - <http://people.du.ac.in>

Campus Wide Software

DUCC continue to provide the following Network License Software for the use of DU faculty, staff, research scholars, PG & UG Students:

SPSS V 22 + AMOS (Windows 32 bit & 64 bit, Unix and Mac platform)

Matlab R2014b (Windows 32 bit & 64 bit, Unix and Mac platform)

SigmaPlot 12 (for Windows Only)

Biometric Attendance System

Biometric Attendance System Server is managed at DUCC. At present 87 Biometric attendance machines are working at various locations in Delhi University (North Campus) which includes VC office, Examination building, New Administrative Block, Health Centre, various Faculties & Departments including hostels.

For effective monitoring of biometric attendance system, about 135 Login ID's with password are provided to Department Heads and all the designated officers like Assistant Registrar/Deputy Registrar etc. They have viewing rights to access the attendance reports of their departments on daily, monthly or yearly basis. Reports can be exported and saved in various formats like excel, pdf, rtf, word, rpt etc.

Biometric Attendance System generates various reports, i.e., Attendance Register, Late Comers Report, Absentees Report, Analytical Summary of individual employees, Graphical Report for all the employees for required time period, Email feature to send Attendance Summary to all the departments and individual employee as and when required by DUCC

Training Conducted at DUCC

DUCC has organized various training programs for throughout the year for the faculty, staff, Research Scholars, PG students, college system administrator/ technical staff covering all the verticals starting from the basic to advance courses in Excel, SPSS, Matlab, Web Designing which are useful for teaching, research tools, and project taken by the students.

S.No.	Course Title	Dates	Total Participants Attended
1	S P S S – (Statistical Package for Social Sciences)	21-05-2018 to 25-05-2018	12
2	Training Session on "Attendance Management System" for Delhi University Colleges (Batch 1)	13-07-2018	60
3	Training Session on "Attendance Management System" for Delhi University Colleges (Batch 2)	17-07-2018	35
4	Training Session on "Attendance Management System" (for Law Faculty)	27-08-2018	20
5	Workshop on "How to Prevent Plagiarism"	14-09-2018	19
6	MathWorks Seminar on "Demystifying Deep Learning with MATLAB"	19-09-2018	28
7	Workshop on GeM "Government e-Marketplace"	25-09-2018	39
8	Workshop on e-Procurement at Biotech Auditorium, South Campus	9-10-2018	
9	Meeting/Demo on Vendor Bill Tracking Management System	11-1-2019	81
10	Demo/Training Session on Time Table Management System (Batch 1)	17-01-2019	10
11	Demo/Training Session on Time Table Management System (Batch 2)	22-01-2019	13
	Workshop on GeM	30-01-2019	36
12	FDP on LaTeX & Scilab in Collaboration with ST IIT Bombay	20-02-2019	23
13	Demo/Training for Online Fee Payment Portal	26-02-2019	42
14	Meeting/Demo on Vendor Bill Tracking Management System	25-04-2019	69

Regular Activities

Apart from new initiatives, Delhi University Computer Centre (DUCC) designs and administer India's biggest educational IT network feeding more than 15000 devices through wired network and more than 1.5 lakh users over Wi-Fi for Internet needs as on date through National Knowledge Network (NKN).

DUCC is managing the Delhi University's core IT infrastructure comprising of:

Data Centre with more than 60 active devices including Servers, Core switches, Zonal switches, Routers, UTM devices, Storage etc.

Wired equipment comprising of more than 400 network switches (and increasing)

Wi-Fi equipment comprising of 100+ switches and 500 wireless access points

Fibre optic cable network of 43 kilometres laid across both campuses

Servers hosting different applications like College and Department website along with the University main website, DNS, Proxy, Email, Payment Gateway, License and Webcast server.

Colocation servers for Examination, Administration, Finance, School of Open Learning, Library catalogue and Braille software etc.

DUCC is also actively doing/providing Content Management of DU website, Technical Support & Regular updates on DU Facebook Page, Web Hosting services for Colleges / Departments / Centres, Faculty Members Web Hosting Services. Apart from Network and Website designing and maintenance, DUCC has successfully provided technical support and hosted videos for events such as Public Lecture series, Studio lectures, Gyanodya, Annual Convocation, Antardhvani etc.

DUCC has more than 1500 members comprising of PG students, Research Scholars, Faculties and staff who can avail internet and printing services free of cost. The future plans of DUCC include virtually combining the Campus and College Wi-Fi so that users' remains connected to internet irrespective of the location. This will ensure seamless connectivity for end users.

Provisioning of ICT VPS to Different Units of the University

Webcast

Live Streaming

Provisioning of technical infrastructure for core events of DU viz. AC/EC meetings, Court Meeting and other key events/meetings. This includes Wi-Fi setup, computing facilities etc.

Management of e-Procurement and GeM

Single point of solution to all e-Procurement and GeM related utilities are provided to DU community.

Following key supports are provided to administrative units and departments: -

Provisioning and facilitating of GeM accounts

Provisioning and facilitating of e-Procurement accounts.

Special Training program conducted on "Implementation of GeM for e-marketing" for the officials of DU. Around 130 number of DU officials/faculty from various Administrative Offices, Departments, Colleges were attended this training.

GeM

446 Users of 102 Departments

e-Procurement

DU e-Procurement Users: 456 Users of 58 Departments and 37 Colleges

For 2018-19 –

No. of Tenders – 2121

Value of Tenders – 9038.58 (Rs. In Lakhs)

DEVELOPING COUNTRIES RESEARCH CENTRE

Sunil K Choudhary is a Professor of Political Science and Director, Developing Countries Research Centre [dcre] at University of Delhi.

Prof Sunil has an outstanding academic record, research publications and nearly a three-decade teaching experience at the University of Delhi. A Gold-Medalist from University of Delhi, a post-doctoral fellow from Tel Aviv University, Israel and a Commonwealth Fellow at the University of Oxford, U.K., he has written extensively on contemporary issues like communalism, secularism, party systems, democracy, governance, human rights, Diaspora and corruption which have not only been figured in various refereed national and international journals but have also been published as peer-reviewed books.

He has to his credit at present 7 Books, 47 Research Papers and 221 Research Publications and Presentations. As an expert/examiner/editor, he has been associated with various premier institutions in India and abroad and has been featured prominently in electronic and print media, particularly the Rajya Sabha TV and All India Radio.

He is the recipient of various national and international awards, including the prestigious Global South Award, 2014 and Prof G Ram Reddy IPSA National Award, 2018. The Global South Award is given only to one Social Science Scholar from amongst 155 nations for making distinct research contributions in the countries of the Global South.

Major Activities and Achievements

The Centre organised various academic activities in 2019-20 like lectures, interactive discourses, and workshops. Believing in continuity and consistency, the Centre is publishing consecutive issues of its Quarterly Newsletter, and Monthly Hindi magazine. After the successful completion of projects, Samiksha: UP Assembly Election Survey and Samiksha: Delhi Municipal Election, 2017, the centre conducted another meticulously planned, scientifically designed and objectively executed psephological research survey under the title “dcre Samiksha: Delhi 2020”.

Honours/Distinctions

Prof Sanjeev Kumar Sharma, member, dcre Advisory Committee, was appointed as the Vice Chancellor of Mahatma Gandhi Central University, Motihari, Bihar.

Publications

Four Issues of *Sanchayan*, Quarterly Newsletter Vol.4 No. 2, 3 and 4 (2019) and Vol. 5 No.1 (2020)

Issues of *Sanshleshan*, Monthly Hindi Magazine 2019-20

Annual Calendar

Journal

Two issues of Centre’s Journal *GlobaLense: A Journal of Social Science Research*

Lectures/ Workshops/Interactive Discourses/Talk Organised

The Centre organised a talk on ‘Cyber Security: The New Art of War?’ on 1 April 2019 by Prof Bertrand VENARD from Audencia Business School, France and a Visiting Fellow at the University of Oxford. Prof Sunil chaired the programme.

The Centre organised a Special Lecture on ‘Changing Indo-Israeli Relations: Celebrating the Convergence in Contemporary Times’ on 23 April 2019. Ms Avigail Spira, First Secretary, Embassy of Israel was the

Chief Guest on the occasion. Prof Juval Portugali, Tel Aviv University, was the Keynote Speaker and Prof Veena Kukreja, Head of the Department of Political Science, University of Delhi Chaired the Program.

The Centre organized an Interactive Discourse on ‘Constitution and Election’ on 3 May 2019 with two panellists from Jodhpur, Dr Hariram Parihar and Dr Dinesh Gehlot.

The Centre organized its 13th Monthly Lecture on ‘Reforming the Muslim Society: A Triple Talaq Perspective’ on 27 August 2019 with Shri Arif Mohammad Khan, formerly Union Minister, Government of India as the keynote speaker and Shri Raj Kumar Bhatia Ji, formerly with University of Delhi chaired the programme.

The Centre organized its second Atal Bihari Vajpayee Memorial Lecture on 26 December 2019 on the topic, “Hum Aur Loktantra”. Shri Balbir Punj, Former Member of Parliament, Rajya Sabha was the keynote speaker whereas an eminent journalist and the President of Jammu & Kashmir Adhyyan Kendra, Shri Jawaharlal Kaul was the chair on the occasion.

The Centre organized its first election workshop on 14 January 2020 for its survey project “dcrc Samiksha: Delhi 2020”. Shri Siya Sharan, the Finance Officer of University of Delhi was the Chief Guest on the occasion. Further election workshops were organised on 24 and 31 January.

Extension and Outreach Activities

Through the “dcrc Samiksha: Delhi 2020”, centre was able to involve and impart empirical training to a large number of students from across the colleges of University of Delhi.

Faculty Strength

Honorary: 28

Other Significant Information

The Centre celebrated the Constitution Day on 26 November 2019.

The Centre conducted a meticulously planned, scientifically designed and objectively executed psephological research survey under the title “dcrc Samiksha: Delhi 2020”. These results were based on a sample of 103,731 voters taken from all 70 assembly constituencies of the Capital from 1-6 February 2020.

The Centre regularly host visitors. Prof Bidyut Chakrabarty, Vice Chancellor of Vishwa Bharti University, Shantiniketan, West Bengal visited the centre. Shri Anurag Bana, Senior Legal Advisor, UK and Shri Prakash Punj, National Head, Simpolo Ceramics and his corporate colleagues visited the centre in January 2020.

The Centre’s activities on Delhi elections were widely covered in many newspapers and Director, Prof. Sunil K. Choudhary appeared on Rajya Sabha TV and All India Radio in many programmes.

DR. B.R. AMBEDKAR CENTER FOR BIOMEDICAL RESEARCH

Major Activities and Achievements

Dr B.R Ambedkar Center for Biomedical Research, University of Delhi offers multidisciplinary M.Sc, Ph.D program in Biomedical Sciences since last 32 years in a unique format of CEC (“Choice based learning”, “earnwhile you learn” and “Cooperative teaching”) with a motto to bridge basic sciences to medical sciences . ACBR mandate is to inspire and generate human resource and intellectual property development in the areas of diagnostics, virulence / pathogenic mechanisms of human diseases, genetic and epigenetic

regulation/dysregulation of diseases, immunopathogenesis of infectious and noninfectious diseases, Neuropharmacology, medical biotechnology, cheminformatics, bioinformatics, drug discovery and drug development. The faculty and current research students have made a mark by publishing research work in reputed international journals, filing patents, technology transfer to industry, receiving prestigious awards. We are proud to announce that ACBR alumni are serving globally by holding key positions in industry, academia and publishing houses.

Honours/Distinctions

Dr. Laishram R. Singh (Springer Nature-Proteomic Society award for best paper citation)

Dr. Laishram R. Singh (Guest Editor of the journal, "Biomolecule", MDPI)

Editorial Board Member "Nature Scientific Report"

Publications

Apoorva Uboveja, Yatendra Kumar Satija, Fouzia Siraj, Ira Sharma, Daman Saluja (2020). p73-NAV3 axis plays a critical role in suppression of colon cancer metastasis. *Oncogenesis* (2020) 9:12. (<https://doi.org/10.1038/s41389-020-0193-4>).

Arif Bashir, Younis Hazari, Debnath Pal, Dibyajyoti Maity, Samirul Bashir, Laishram Rajendrakumar Singh, Naveed Nazir Shah, Khalid Majid Fazili. Aggregation of M3 (E376D) variant of alpha1- *antitrypsin*. *Sci Rep*. 2020; 10: 8290.

Bhat, M. Y., Singh, L. R., & Dar, T. A. (2020). taurine induces an ordered but functionally inactive conformation in intrinsically Disordered casein proteins. *Scientific reports*, 10(1), 1-11.

Dar PA, Mir SA, Bhat JA, Hamid A, Singh LR, Malik F, Dar TA. An anti-cancerous protein fraction from *Withania somnifera* induces ROS-dependent mitochondria-mediated apoptosis in human MDA-MB-231 breast cancer cells. *Int J Biol Macromol*. 135:77-87 2019 (Impact factor-4.8; *ISSN*: 0141-8130)

Dwivedi, M., Muralidhar, S., & Saluja, D. (2020). Hibiscus sabdariffa Extract Inhibits Adhesion, Biofilm Initiation and Formation in *Candida albicans*. *Indian Journal of Microbiology*, 60(1), 96-106.

G Kak, BK Tiwari, Y Singh and K. Natarajan. 2020. Regulation of Interferon- γ Receptor (IFN- γ R) Expression in Macrophages During Mycobacterium Tuberculosis Infection. *Biomolecular Concepts* 11: 76-85.

Joon, D., Nimesh, M., Gupta, S., Kumar, C., Varma-Basil, M., & Saluja, D. (2019). Development and evaluation of rapid and specific sdaA LAMP-LFD assay with Xpert MTB/RIF assay for diagnosis of tuberculosis. *Journal of microbiological methods*, 159, 161-166.

Jyoti, K., Jain, S., Katare, O. P., Katyal, A., Chandra, R., & Madan, J. (2020). Non-small cell lung cancer tumour antigen, MUC-1 peptide-loaded non-aggregated poly (lactide-co-glycolide) nanoparticles augmented cellular uptake in mouse professional antigen-presenting cells: optimisation and characterisation. *Journal of Microencapsulation*, 37(1), 14-28.

Kumar, D., Narang, R., Sreenivas, V., Rastogi, V., Bhatia, J., Saluja, D., & Srivastava, K. (2020). Circulatory miR-133b and miR-21 as novel biomarkers in early prediction and diagnosis of coronary artery disease. *Genes*, 11(2), 164.

Kumar, K., Banerjee, J., Tripathi, M., Chandra, P. S., & Dixit, A. B. (2019). Epigenetic Regulation of mTOR Pathway in Malformations of Cortical Development. *Neurology India*, 67(6), 1472.

- Mishra, C. B., Gusain, S., Shalini, S., Kumari, S., Prakash, A., Kumari, N., ... & Tiwari, M. (2020). Development of novel carbazole derivatives with effective multifunctional action against Alzheimer's diseases: Design, synthesis, in silico, in vitro and in vivo investigation. *Bioorganic Chemistry*, 95, 103524.
- Mishra, C. B., Shalini, S., Gusain, S., Prakash, A., Kumari, J., Kumari, S., ... & Tiwari, M. (2020). Development of novel N-(6-methanesulfonyl-benzothiazol-2-yl)-3-(4-substituted-piperazin-1-yl)-propionamides with cholinesterase inhibition, anti- β -amyloid aggregation, neuroprotection and cognition enhancing properties for the therapy of Alzheimer's disease. *RSC Advances*, 10(30), 17602-17619.
- Pawar, A., Jha, P., Chopra, M., Chaudhry, U., & Saluja, D. (2020). Screening of natural compounds that targets glutamate racemase of Mycobacterium tuberculosis reveals the anti-tubercular potential of flavonoids. *Scientific reports*, 10.
- Pawar, A., Jha, P., Konwar, C., Chaudhry, U., Chopra, M., & Saluja, D. (2019). Ethambutol targets the glutamate racemase of Mycobacterium tuberculosis—an enzyme involved in peptidoglycan biosynthesis. *Applied microbiology and biotechnology*, 103(2), 843-851.
- Rana V., S Popli, GK Saurav, K yadav A Kumar, S Sunil, N Kumar, OP Singh, K Natarajan and R Rajagopal. 2020. Aedes Aegypti Lachesin Protein Binds to the Domain III of Envelope Protein of Dengue virus-2 and Inhibits Viral Replication. *Cellular Microbiology* 22: e13200.
- Rather, M. A., Dar, T. A., Singh, L. R., Rather, G. M., & Bhat, M. A. (2020). Structural-functional integrity of lysozyme in imidazolium based surface active ionic liquids. *International Journal of Biological Macromolecules*.
- Shahnaj, S., Chowhan, R. K., Meetei, P. A., Kakchingtabam, P., Herojit Singh, K., Rajendrakumar Singh, L., ... & Rahaman, H. (2019). Hyperoxidation of peroxiredoxin 6 induces alteration from dimeric to oligomeric state. *Antioxidants*, 8(2), 33.
- Sharma, G. S., Warepam, M., Bhattacharya, R., & Singh, L. R. (2019). Covalent modification by glyoxals converts cytochrome c Into its apoptotically competent state. *Scientific reports*, 9(1), 1-8.
- Sharma, M., Jha, P., Verma, P., & Chopra, M. (2019). Combined comparative molecular field analysis, comparative molecular similarity indices analysis, molecular docking and molecular dynamics studies of histone deacetylase 6 inhibitors. *Chemical biology & drug design*, 93(5), 910-925.
- Sharma, M., Khan, S., Rahman, S., & Singh, L. R. (2019). The extracellular protein, transthyretin is an oxidative stress biomarker. *Frontiers in physiology*, 10, 5.
- Singh A, V Anang, A K Rana, C Verma, S S Toni, P Kumari, A Singh and K Natarajan 2020. Deciphering the role of calcium homeostasis during mycobacterial infection. *Cellular Immunology* 357: 104198.
- Tanwer, P., Kolora, S. R. R., Babbar, A., Saluja, D., & Chaudhry, U. (2020). Identification of potential therapeutic targets in Neisseria gonorrhoeae by an in-silico approach. *Journal of Theoretical Biology*, 490, 110172.
- Tauheed Hasan, Reetika Arora, Aniket Kumar Bansal, Reshmee Bhattacharya and Laishram Rajendrakumar Singh. Disturbed homocystein metabolism is associated with cancer. *Experimental and Molecular Medicine*, 51(2):21, 2019. (Impact factor-5.06; ISSN 2092-6413)
- Tayh G, Nagarjuna D, Ben Sallem R, Verma V, Chairat S, Boudabous A, Yadav M, Ben Slama K (2020). First report of VIM metallo- β -lactamase production in *Escherichia coli* and *Klebsiella pneumoniae* clinical isolates from Gaza Strip, *Palestine*. *GERMS*. 10 (1):25-33. doi: 10.18683/germs.2020.1181

Umar, T., Gusain, S., Raza, M. K., Shalini, S., Kumar, J., Tiwari, M., & Hoda, N. (2019). Naphthalene-triazolopyrimidine hybrid compounds as potential multifunctional anti-Alzheimer's agents. *Bioorganic & medicinal chemistry*, 27(14), 3156-3166.

Umar, T., Shalini, S., Raza, M. K., Gusain, S., Kumar, J., Seth, P., ... & Hoda, N. (2019). A multifunctional therapeutic approach: Synthesis, biological evaluation, crystal structure and molecular docking of diversified 1H-pyrazolo [3, 4-b] pyridine derivatives against Alzheimer's disease. *European journal of medicinal chemistry*, 175, 2-19.

Vandana, Dixit R, Tiwari R, Katyal A, Pandey KC. Metacaspases: Potential Drug Target Against Protozoan Parasites. *Front Pharmacol*. 2019;10:790

Verma V, Gupta S, Kumar P, Yadav S, Dhanda RS, Gaiind R, Arora R, Frimodt-Møller N, Yadav M (2019). Involvement of NLRP3 and NLRC4 Inflammasome in Uropathogenic *E. coli* Mediated Urinary Tract Infections. *Frontiers in Microbiology*. Sep. doi: 10.3389/fmicb.2019.02020.

Warepam, M., Ahmad, K., Rahman, S., Rahaman, H., Kumari, K., & Singh, L. R. (2020). N-Acetylaspartate Is an Important Brain Osmolyte. *Biomolecules*, 10(2), 286.

Yadav N, Banerjee J, Tripathi M, Chandra P S, Dixit AB. Association of Genetic Polymorphisms in Tumor Necrosis Factor-Alpha gene with the risk of Intracerebral Hemorrhage in North Indian Population. *Neurol India* 2020;68:84-5

Yadav S, Khurana S, Bagga R, Dhanda RS, Yadav M (2020). Data showing differential expression of Monocyte chemoattractant protein-1 in response to symptomatic and asymptomatic *T. vaginalis* infection. *Data Brief*.30:105628. doi: 10.1016/j.dib.2020.105628.

Number of Department Teachers Serving as Editor(s)/Member(s) of Editorial Board

Dr. Laishram R. Singh- Nature Scientific Reports

Dr. Laishram R. Singh- Current Protein Peptide Science

Dr. Laishram R. Singh- Protein Peptide Letters

Dr. Aparna Dixit- Neurology India

Prof. Vani Brahmachari- Nature Scientific Reports

Research Projects

Agency: DBT

Period: Jan 2020- Jan 2022

Title: Designing and evaluation of point of care diagnostic assay For detection of MDR Tuberculosis using Loop mediated isothermal amplification (LAMP) combined with lateral flow dipstick (LFD)

Amount: 70

PI: Prof. Daman Saluja

Agency: DBT

Title: Comparative analysis of src kinase mediated high glutamatergic activity in the anterior temporal lobe (ATL) and Hippocampus of the Hippocampal sclerosis patients

Funding Agency: Department of Biotechnology, Ministry of Science & Technology, Govt of India

Amount 58.168 lakhs

PI: Dr. Aparna Dixit

Agency: Principal Scientific Advisor, Govt. of India

Title: Investigation of the role of mass spectrometric lipid profiles of brain tissues resected from patients with Focal cortical Dysplasia (FCD) in defining the epileptogenic zone (EZ)

Amount: 66.05 lakhs PI: Dr. Aparna Dixit

Agency: DBT

Period/Duration: August 2017- July 2020, Three years.

Title: Deciphering the role of calcium homeostasis in modulating T cell dynamics during Mycobacterium tuberculosis infection

Amount: Rs 81.27 lakhs PI: Prof. K.Natarajan

Agency: DST

Period/Duration: September 2018 - August 2021. Three Years.

Title: Deciphering the role of SUMOylation during Mycobacterium tuberculosis infection.

Amount: Rs 54.53 lakhs PI: Prof. K.Natarajan

Agency: ICMR

Period/Duration: 2019--2022

Title: Investigating the modulatory role of PPAR β/δ in pathogenesis of Experimental Cerebral Malaria, to establish it as a potential therapeutic target".

Amount: Rs. PI: Dr. Anju Katyal

RECENTLY COMPLETED PROJECTS (2015-20 march 2020)

Name of the Principal Investigator : Dr. Daman Saluja

Title: Understanding the role of SIN3, A global transcription regulator in nongenotoxic stress mediated modulation of gene expression.

Funding Agency : DST

Grant Sanctioned : 78, 15,400

Period: Three years (2016-June19)

Name of the Principal Investigator : Dr. Daman Saluja

Title: Development of a hand held molecular point-of-care test device for infectious diseases (Indo-Canada Impact project).

Funding Agency: DBT

Grant Sanctioned: 312.13 Lakh

Period: Two years (2017- Nov2019)

Patents Filed/Granted

Inventors: Prof Daman Saluja. Sunital Jetly and Rashi Arora A new Fluorescent Beacon probe based diagnostic Tool/Kit for molecular detection of Translocation t(9;22)/ BCR – ABL1 in Leukemic patients and Method of Working for the same **patent No: 327607** (application number IN 1569/DEL/2013 Dated 24/5/13 **Granted 17.12.19**

Seminar/Conference Presentations (National/International)

Invited Speaker IC-EAST conference organised by DRDO. New Delhi, September 5-6 2019 by Prof. K.Natarajan

Invited Speaker 'IMMUNOCON-2019' November 13-14, 2019, BARC, Mumbai by Prof. K.Natarajan

Guha Research Conference December 5-10 2019 by Prof. K.Natarajan

Invited Speaker Bhaskaracharya College of Applied Sciences, University of Delhi February 6 2020 by Prof. K.Natarajan

Combination therapy of cervical cancer using lysine deacetylase (LDAC) and DNA damaging agents', in Emerging Trends in Translational Oncology on 14-15 Feb. 2020 at **AIIMS New Delhi** by Dr. Madhu Chopra

Delivered talk on "The Chemical Chaperone, TMAO fails to refold proline rich proteins" at National Seminar entitled "**Biotechnology Research in India: Current Status and Future Prospects**" organised by Department of Biotechnology, School of Chemical and Life Science, Jamia Hamdard (2019) by Dr. L.R. Singh

Best Platform presentation to Dr. Aparna Dixit. Aparna Banerjee Dixit, Krishan Kumar, Nitin Yadav, Arpna Srivastava, M. C. Sharma, Sanjeev Lalwani, Fouzia Siraj, Manjari Tripathi, Jyotirmoy Banerjee & P. Sarat Chandra. Mass spectrometry-based lipidomics analysis reveals altered lipid profiles in brain tissues resected from focal cortical dysplasia (FCD) patients. Indian Epilepsy Association and Indian Epilepsy Society. 21st Joint Annual Conference of Indian Epilepsy Association and Indian Epilepsy Society, ECON2020 at Ahmedabad (17-19 Jan., 2020).

Best poster award to Nitin Yadav, PhD student: Nitin Yadav, Priya, Sonali Kumar, Ozasvi R. Shanker, Arpna Srivastava, Krishan Kumar, Sanjeev Lalwani, MC Sharma, Fouzia Siraj, P Sarat Chandra, Manjari Tripathi, Jyotirmoy Banerjee, Aparna Dixit; Altered expression of fibronectin1 in Mesial temporal lobe epilepsy presented in 3rd Annual International Science event BIOZEST 2019 held on 7th Nov 2019 at Faculty of Life Science and Biotechnology, South Asian University, New Delhi-110021.

Other Inter-Institutional Collaboration

Students under Exchange Programme

Inbound/Outbound

Placement Details (Number and percentage of students placed)

Pooja Tanwer: DBT BIRAC (senior scientist)

Renu Pandey Deloit, health sector (Scientists)

Extension and Outreach Activities

SURP June - July 2019

Training of students selected under program by IAS 2019

Number of M.Phil. /Ph.D. Degrees awarded

Ph.D.: 05

Faculty Strength:

Professor- 03

Associate Professor: 01

Assistant Professor: 07

Assistant Professor (Adhoc basis): 01

DELHI SCHOOL OF JOURNALISM

Major Activities and Achievements

Orientation Program for first year batch of 2019 in August 2019. The fresher's day was organised in October 2019. Three students participated in a National Competition of Advertisement making organised by IIT Ropar in October 2019. The Quiz Society organised a three-day Intercollege Quiz competition where political quiz, general quiz and entertainment quiz competitions were organised. The writers Forum organised Intercollege Hindi Kavita Competition in September 2019. An International Students Film Festival was organised in September 2019. A documentary Film on 'Arun Jaitely Ek Vyaktitva' made by Delhi School of Journalism which was showcased in the first Shri Arun Jaitely Memorial Lecture, organised by University of Delhi. The writers Forum also organised 'Vagh Yudh' an intercollege mock parliament in February 2020. Women day celebration was held on 6th March 2020.

Honours/Distinctions

Bharti Shandilya: Won Third Prize for a documentary named 'Pratikriya' in **International Professional Filmmaker Competition Category** in India International Science Film Festival (IISFF) (October, 2019).

Sunil Lonia: Short film name BAHULAK (The Polymer) first runner up on the 5th INDIAN INTERNATIONAL SCIENCE FESTIVAL 2019, ISFFI 2019-2nd BEST SCIENCE FILM AWARD. This International science film festival held at Biswa Bangla Convention centre/Satyajit Ray Film and Television Institute Kolkata, 5-8 November 2019.

Aparajitha Nair represented India and participated in an (International) Asia World Model United Nations III (AWMUN III) at Bali, Indonesia in November 2019. The theme of AWMUN III was "The Implementations of World's Agenda 2030". She won the "Best Position Paper" award of the Council – DISEC (Disarmament and International Security Council).

Publications

Agrawal Chitralkha (2019), 'पंचतंत्र की कहानियों के ज़रिए व्यावहारिक और नीतिगत ज्ञान के लोकसंचार का विश्लेषण', 'Emerging Trends in Technology, Management and Communication', Knowledge HEADS Publication, Meerut, ISBN-978938601547

Islam Rabiul (2019) কোচবিহার জেলার পত্রত্রিকার ইতিহাস [Magazine history of Coochbehar district (1877-2010)], Beekha (Peer-reviewed research journal of Bengali Language & Literature, Publisher: Bangla Academy Trust, Delhi, India & Bangla Bhasa Sahitya O Sanskriti Parishad, Dhaka, Bangladesh, ISSN 2395-5872

Misra Abhishek (2019) “Naatak Aur Ranagmanch Ka Antah Sabandh”, Jigyasa, Vol. NO;- 12/04, Page no. – 233-236,ISSN 0974-7 648, publication Banaras Hindu University , Varanasi.

Misra Abhishek (2019), “Mahtma Gandhi Ki Lokpriya Men Samachar Patro Kee Bhoomikaa”, Sanwaad Path, Vol.-2, Issue -2 Page No:- 35-40,ISSN NO : 2581-7353, Kendriya Hindi Sansthan – HRD ministry

ছাদ পেটানোর গান (A Collection of Chhad Petanor Gaan), Edited by Rabiul Islam & Salim Mondal(February) 2020, Tobuo Proyas Bangalji, Chapra, Nadia 74423,ISBN 978-93-87743-47-2

Seminars organised by the Department

Total Number-16

Dr. Suchitra Gupta, ‘Formats of Radio’ -29th July 2019

Mr. Marydesan, ‘Print Journalism’ -5th August 2019

Shri Sanjay Dev, Editor Amar Ujala on Hindi Patrakarita - 30th September 2019.

Mr. Vivek Nigam, ‘Photojournalism’ - 21 October 2019

Dr. Asani Bahaduri ‘Environment’-13th January 2020

Dr. Nimesh Kapoor ‘Fact Verification’ -20th January 2020

Mr. Rajesh Badal ‘Biopic as a career’ -27th January 2020

Dr. Suzanne Frank –(International) ‘Why Journalism’-4th February 2020

Dr. R.K Singh -‘Power of the Digital’ -10th February 2020

Shri Devendra Shukla ‘Election Reporting’-2nd March 2020

Conferences Organised

National Conference on ‘Gandhi and Journalism’ in collaboration with Gandhi Samiti – 22 February 2020. It was funded by Delhi School of Journalism

Seminar/ Conferences Presentations (National/International)

Chitrekha Agrawal -Paper Presented – “Views presented as news & Headlines”, National seminar on Emerging ethical issues in Indian

Media, Organised by- MCNUJC, NOIDA Campus, November 30, 2019

Chitrekha Agrawal- “पंचतंत्र की कहानियों के ज़रिए व्यावहारिक और नीतिगत ज्ञान के लोकसंचार का विश्लेषण”, International Conference on Global Advancement in Technology, Management & Communication (IC-GATMC) Organised by - IIMT College of Management, Greater NOIDA, Dec 7,2019.

Shandilya Bharti: Presented a paper on science communication in "VIGYANIYA" in India International Science Festival (IISF) (November, 2019).

National /International MOU Signed

International MOU signed with EFE Spanish NEWS Agency

Paid Internship for one student.

Other Inter-Institutional Collaboration

Collaborated with SOL for holding classes of semester 1 w.e.f August 2019 - November 2019

Placement Details (Number and Percentage of Students Placed)

Four students were selected for Internship by NewsEra and two have been offered placement in the same.

Faculty Strength: 45 Guest Faculty

Other Significant Information:

Delhi School of Journalism set up its own Production Studio and ICT Lab in 2019

INSTITUTE OF INFORMATICS & COMMUNICATION

Major Activities and Achievements

The Institute has been instrumental in setting up the University Information Management System (UIMS). Under UIMS, IIC has been developing and managing enterprise applications for Online UG and PG admissions, Online recruitment for teaching and non-teaching staff, Open Book online Examination, Human Resource Management, Finance Management, Document Management, College management etc. and currently student life cycle management is being implemented.

The Institute organized various activities such as, Industrial Lecture Series, in which eminent persons visit the institute to deliver specialized lectures on current trends in the IT industry sector. Further students and faculty organized time-to-time Industry-University interaction programme. The faculty actively presented their research work in various platforms like National / International conferences, workshops. The Placements activity in this year like earlier years has been actively pursued resulting in ~40 % placement in the first round. Many top-rated IT industries are coming for the campus placement. Industries visiting the Institute this year are Snapdeal, Zillious Solutions, Aricent Technologies, Hughes Systique, QA Info Tech etc.

Honours/Distinctions

Mr. Apoorv Saxena, M.Sc pass out student awarded Capt. Anuj Nayyar Memorial Gold Medal-2019, University of Delhi

Journals

Published by the Department

Amit Birwal, Sanjeev Singh, Binod Kumar Kanaujia, Sashin Kumar, Broadband CPW-fed circularly polarized antenna for IoT-based navigation system, International Journal of Microwave and Wireless Technologies, Volume-11, 2019, Pages 835-843. <https://doi.org/10.1017/S1759078719000461>

Amit Birwal, Sanjeev Singh, Binod Kumar Kanaujia, Sashin Kumar, CPW-fed Ultra-Wideband dual sense circularly polarised slot antenna Progress in Electromagnetic Research C, Volume-94, 2019, Pages 219-231. <https://doi.org/10.2528/PIERC19052005>

Research Projects

MHRD sponsored project Samarth, 2019-2024, Evolutionary Process Automation Engine for Universities and Higher Education Institutions Rs. 25 Crore

Seminars Organized

Workshop on “Skill Building “on 13th April 2019, at University of Delhi South Campus.

Workshop on “Entrepreneurship Awareness Workshop” 4th March 2020 at University of Delhi South Campus.

Seminar/Conference Presentations

Birwal, A., Singh, S., & Kanaujia, B. K. (2019, December). Low Profile Two-Element Dipole Antenna for 2.4/5.8 GHz MIMO WLAN Applications. In 2019 IEEE Indian Conference on Antennas and Propagation (InCAP) (pp. 1-4). IEEE.

Birwal, A., Singh, S., & Kanaujia, B. K. (2019, December). Dual-Band Circular-Button Antenna for WBAN Applications. In 2019 IEEE Indian Conference on Antennas and Propagation (InCAP) (pp. 1-4). IEEE.

Students under Exchange Programme: 02

Summer internship program with National Tsing Hua University, Taiwan.

Placement Details (Number and Percentage of Students Placed)

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
03	44	16	09

Number and percentage of students placed: **25 & 56.81**

Number of Companies visited for campus recruitment: **03**

Extension and Outreach Activities

Collaborated with Connecting Dreams Foundation for Social entrepreneurship and empowerment

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: **01**

Faculty Strength: 03 (Positions) – 01 has retired, 01 is absent since 2016

Other Significant Information

IIC has been very instrumental in providing IT based solution and services to the University for various automation processes. The software developed at IIC has been implemented at various central Universities e.g. JNU, CUH, CUB, Patna etc. NIC, Govt. of India has approached IIC to organize Hackathon, Idea championship events organized national level Idea Challenge.

INSTITUTE OF CYBER SECURITY AND LAW**Major Activities and Achievements**

Post Graduate Diploma in Cyber Security and Law (PGDCSL) started its second batch for the Academic Session 2019-20 under the aegis of Institute of Cyber Security and Law (ICSL), University of Delhi with Shaheed Sukhdev College of Business Studies. This is a self-financing course wherein the delivery of the course is through Industry as per the GFR and Guidelines for Information Technology projects. The second batch enrolled 49 students and 8 seats fall vacant due to lack of eligible applicants.

Research Projects

During the second Semester, as a part of the curriculum, the students of PGDCSL undertook the following Projects under the supervision of the industry experts in the field of cyber security from knowledge partner, Lucideus Inc.:

DU Coin

Using Blockchain for Electoral Voting System

Child Pornography: A Guide for Legal Proceedings in Cyber Forensics For Digital Artifacts

Drop-It

Face Recognition –IDS

The Dark secrets of Deep Web

Botnets

ERP System for College

Image denoising by Targeted Database

Theft Identification: Analysing risks and safeguards

Whistleblowing- The Secret That Should Be Known

Web VAPT On Demo.Testfire.Net

A Survey on Emerging Cyber Crimes and Their Impact Worldwide

Cryptojacking: Is your Computer Hijacked?

Securing the Internet of Hackable Things using Permissioned Blockchain

E-banking frauds- the current scenario and security techniques

Child Exploitation-A Detrimental Situation

Image Indexing and Retrieval Algorithm Design through Concept and Image Content Edge Detection Using Artificial Neural Network

Ransomware

Cyberstalking: Impact of Social Media Profiling

Detection and Prevention of Human trafficking by reverse tracking

OWASP -10-2017 based threat modeling of Web Application Vulnerability Assessment

Cryptocurrencies: Menace Vs. Gamechanger

Vulnerability Analysis and Threat Detection Using AI

Spoof Email Prevention - Algorithm and Demonstration

Impact of cyber-crime on global security

Tackle the Smart Contract Vulnerabilities

Drug trafficking: Moving from streets to cryptomarkets
Botnet: A Persistent Cyber Threat to Internet Security
Big Data in Cloud Computing-security issues and potential solutions
Image security technique (VC and IWT)
Android SMS app with Encryption

Other Inter-Institutional Collaboration

The students of Post Graduate Diploma in Cyber Security and Law (PGDCSL) are being taught by the industry experts from the Knowledge Partner: Lucideus Inc.

INTERDISCIPLINARY CENTRE FOR PLANT GENOMICS (ICPG)

Major Activities and Achievements

The ICPG members are involved in discovering the genetic components and characterization of their function in plant reproductive development and responses to various abiotic stress conditions. Last year, an ABCC3-type transporter gene was identified to enhance seed weight, yield, productivity, and multiple desirable plant architecture and seed-quality traits without compromising agronomic performance. Investigations have also been made into defining the role of transcription factor OsNF-YB9 in the regulation of growth and development in rice. Experiments on deciphering the role of a MADS-box transcription factor that regulates starch biosynthesis in rice seeds are also ongoing. Brassinosteroids (BRs) are essential for plant growth, development, and immune responses. We have shown that TaBR11 interacts with members of the TaSERK gene family. Another focus of our work has been to improve the quality of tomato fruits. We are trying to characterize several Ethylene Responsive Factors (ERFs) and manipulate the expression of these factors to improve the quality of tomato fruits.

Honours/Distinctions

Professor Sanjay Kapoor

Prof. R.N. Tandon Memorial Lecture Award (2019) by The National Academy of Sciences, India (NASI).

Professor Paramjit Khurana

Prof. Archana Sharma Memorial Lecture Award (2019) by The National Academy of Sciences, India (NASI).

20th Manasi Ram Memorial Lecture Award, Miranda House, University of Delhi for the year 2019.

Elected General Secretary (*Outstation*), The National Academy of Sciences, Allahabad, India, (2018-2019).

Member of the TaskForce on Research on Technology Development in Silk and its Applications in BioMaterials, Department of Biotechnology, Government of India (2018-2021).

Publications

Agarwal, P., Khurana, P. (2019). TaZnF, a C3HC4 type RING zinc finger protein from *Triticum aestivum* is involved in dehydration and salinity stress. *Journal Plant Biochemistry & Biotechnology* (doi: 10.1007/s13562-019-00546-8)

Basu, U., Namoliya, L., Srivastava, R., Sharma, A., Bajaj, D., Daware, A., Thakro, V., Malik, N., Upadhyaya, H.D., Tripathi, S., Hegde, V.S., Tyagi, A.K. & Parida, S.K. (2019). CLAVATA signaling

pathway genes modulating flowering time and flower number in chickpea. *Theor. Appl. Genet.* 132: 2017-2038.

Basu, U., Upadhyaya, H.D., Srivastava, R., Daware, A., Malik, N., Sharma, A., Bajaj, D., Narnoliya, L., Thakro, V., Kujur, A., Tripathi, S., Bharadwaj, C., Hegde, V.S., Pandey, A.K., Singh, A.K., Tyagi, A.K. & Parida, S.K. (2019). ABC transporter-mediated transport of glutathione conjugates enhances seed yield and quality in chickpea. *Plant Physiol.* 180: 253-275.

Das, S., Parida, S.K., Agarwal, P. & Tyagi, A.K. (2019). Transcription factor OsNF-YB9 regulates reproductive growth and development in rice. *Planta* 250: 1848-1865.

Gahlaut V., Samtani H. & Khurana P. (2020). Genome-wide identification and expression profiling of cytosine-5 DNA methyltransferases during drought -and heat stress in wheat (*Triticum aestivum*). *Genomics* 112: 4796-4807.

Li S, Nayar S, Jia H, Kapoor S, Wu J, Yukawa Y. (2020). The Arabidopsis Hypoxia Inducible AtR8 Long Non-Coding RNA also Contributes to Plant Defense and Root Elongation Coordinating with WRKY Genes under Low Levels of Salicylic Acid. *Non-coding RNA* 6, 1–21.

Meena, S., Deb, S., Samtani H. & Khurana P. (2020). Dissecting the molecular function of *Triticum aestivum* STI family members during heat stress. *Frontiers in Genetics* (doi: 10.3389/gen.2020.00873).

Narnoliya, L., Basu, U., Bajaj, D., Malik N., Thakro, V., Daware, A., Sharma, A., Tripathi, S., Hegde, V., Upadhyaya, H., Singh, A., Tyagi, A. & Parida, S. (2019). Transcriptional signatures modulating SAM morphometric and plant architectural traits enhance yield and productivity in chickpea. *Plant J.* 98: 864-883.

Parihar V, Arya D, Walia A, Tyagi V, Dangwal M, Verma V, Khurana R, Boora N, Kapoor S, Kapoor M. (2019). Functional characterization of LIKE HETEROCHROMATIN PROTEIN 1 in the moss *Physcomitrella patens*: its conserved protein interactions in land plants. *Plant Journal* 97, 221–239.

Parihar V, Dangwal M, Arya D, Kapoor S, Kapoor M. (2019). Decrease in DNA methylation 1 interacts with chromomethylase and like heterochromatin protein 1 in *Physcomitrella patens*. *FEBS Letters* 593.

Sharma, N., Chaudhary, C.K. & Khurana P. (2020). Role of myo-inositol during skotomorphogenesis in *Arabidopsis*. *Scientific Reports* (doi: 10.1038/s41598-020-73677-x).

Sharma, N., Chaudhary, C.K. & Khurana, P. (2020). Myo-inositol phosphate synthase molecular switch influencing plant growth and stress responses via ethylene. *Scientific Reports* (doi: 10.1038/s41598-020-67627)

Tyagi V, Parihar V, Malik G, Kalra V, Kapoor S, Kapoor M. (2019). The DEAD-box RNA helicase eIF4A regulates plant development and interacts with the hnRNP LIF2L1 in *Physcomitrella patens*. *Molecular Genetics and Genomics*, <https://doi.org/10.1007/s00438-019-01628-x>.

Number of Department Teachers are Serving as Editor(s)/Members(s) of Editorial Boards of Various Scientific Journals

Professor A. K. Tyagi

Molecular and General Genomics, Transgenic Research, Rice

Prof. Sanjay Kapoor

Associate Editor, Rice

Associate Editor, Journal of Plant Biochemistry and Biotechnology

Research Projects

Professor Akhilesh Kumar Tyagi

Sub-project 1: Characterization of Gene Regulatory Networks and Transcriptional Mechanisms that Control Seed Development, under National Rice Functional Genomics Consortium Project entitled, Functional Characterization of Genetic and Epigenetic Regulatory Networks Involved in the Reproductive Development in Rice 2015-2021, DBT 167.4 Lakhs.

Prof. Arun Kumar Sharma

Tomato Ripening Network. (2015-2021). DBT. 130.98 lakhs.

Regulation of ripening in tomato by manipulation of epigenome (2016-2021). DBT 91.74 lakhs.

Professor Paramjit Khurana

Multi Institutional Network Project on Mulberry Genomic Approaches (2018-2021).

NW1: Genomic Resources for Mulberry: Indian Mulberry Nuclear Genome Sequencing, jointly with JNU, New Delhi. (85.34 lakhs).

NW3A: Discovery and validation of growth and abiotic stress related genes in mulberry, jointly with GKVK, UAS, Bangalore. (89.62 lakhs).

Professor Sanjay Kapoor

Development of a Cell-line based Starch Bio-factory System by Manipulating Components of Starch Regulatory and Biosynthetic Machinery in Tobacco BY-2 Cells Feb 13, 2020 To: Feb 12, 2023, 53 Lakhs

Sub-project IV: Characterization of Gene Regulatory Networks and Transcriptional Mechanisms that Control Male Gametophyte, under National Rice Functional Genomics Consortium Project entitled, Functional Characterization of Genetic and Epigenetic Regulatory Networks Involved in the Reproductive Development in Rice 2015-2021, DBT 167.4 Lakhs.

Dr. Saurabh Raghuvanshi

Mainstreaming rice landraces diversity in varietal development through genome-wide association studies: A model for large-scale utilization of gene bank collections of rice (March 2020-25) PI, DBT, 603 lakhs.

Seminars Organized

Conferences Organized

Dr. Saurabh Raghuvanshi

2nd National Symposium on Database Development and Biocuration (Dec. 17-18, 2019): <http://www.genomeindia.org/nsddb/>.

Professor Paramjit Khurana

National:

Organized the Science and Technology Sensitization Programme for Women at Central Univ of Haryana together with The National Academy of Sciences, Allahabad, India, on November 6 & 7, 2019, at Central University of Haryana, Mahendragarh.

Organized a National Webinar on behalf of NASI together with Central University of Haryana (CuH) on "Effective Poshan (Nutrition) during Covid-19" on 24.09.2020 at Mahendragarh, Haryana.

Seminar/Conference Presentations (National/International)

Professor A.K. Tyagi

National

National Symposium on Current Trends and Future Prospects in Plant Science Research, BHU, Varanasi, 2019 (*Key-note address and Chief Guest*).

Roadmap for Utilization of Bioresources towards Bioeconomy, ISBD, NASI & BCIL, INSA, New Delhi, 2019 (*key-note address*).

XIV Agricultural Science Congress, NAAS and ICAR-IARI, New Delhi, 2019 (*session chair*).

Symposium on Emerging Trends in Biological Sciences Research, ILS, Bhubaneswar, 2019.

India-EMBO Symposium 2019 on Sensing and Signaling in Plant Stress Response, JNU- NIPGR-ICGEB, New Delhi, 2019 (*key-note address*).

Foundation Day Lecture, IHBT, Palampur, 2019.

Botanical Society Inaugural Lecture, ZHDC (Univ. of Delhi), 2019.

Global Bio-India 2019, DBT & BIRAC, New Delhi, 2019.

International

International Conf. on Trends in Plant Sciences and Agrobiotechnology 2019, PTCA & IIT, Guwahati, 2019 (*Keynote lecture and session chair*)

Int. Conf. on Genomics and Breeding for Crop plants, Meerut Univ., Meerut, 2019.

Professor Paramjit Khurana

National

Invited lecture on 'The Art of Scientific Presentation and Writing' at The Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi is conducting a Short Term Course on Research Methodology for the University and College teachers from 17th September 2019 to 23rd September 2019.

Invited lecture on 'Scientific Grant Writing and Prospecting for Funds' at The Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi is conducting a Short Term Course on Research Methodology for the University and College teachers from 17th September 2019 to 23rd September 2019.

Valedictory address to the "Investiture Ceremony-2019" at Soami Nagar Model School, at Soami Nagar, New Delhi, on July 10, 2019.

Panel Discussion in the Concluding session of Ba-Bapu 150th Birth Anniversary and Dr Megnad Saha 125th Anniversary Celebrations organized by The National Academy of Sciences, India, on October 5, 2019, at INSA, New Delhi.

Workshop for "Identifying various issues related to the health, wellbeing and livelihood of Tribal Women in Mirzapur & Sonbhadra districts of eastern UP on Oct 13, 2019 at Krishak PG College, Rajgadh, Mirzapur, organized by the NASI-Varanasi Chapter.

Invited talk on “Meeting Nutritional Challenges of the EWS” in the Webinar on “Nutrition in the times of pandemic” jointly organized by NASI & INSA on September 22, 2020.

Invited talk on “Meeting Nutritional Challenges for a Healthy Lifestyle” in the Webinar on ‘Nutrition: A Weapon to Combat COVID-19’ jointly organized by NASI-DBT-NIPGR, on October 1, 2020.

International:

International Conference on Genomics and Breeding for Crop Improvement and Alumni Meet, at Department of Genetics and Plant Breeding, Ch. Charan Singh University, Meerut, from December 4-6, 2019.

Other Inter-Institutional Collaboration

Professor Paramjit Khurana

Screening of Women in Science-NASI-Elsevier Scopus Young Scientists Awards- 2019, |Monday, 23 September, 2019, at the Elsevier office in Gurgaon. Participated in the Committee for S&T Intervention in various activities for the welfare of scheduled tribes under ‘NASI-ST Plan’

Participated in the CSIR SPMF Selection-cum-Assessment Committee meeting in the area of ‘Life Sciences’ organized at “Human Resource Development Group (HRDG), CSIR Complex, Library Avenue, Pusa, New Delhi – 110 012 during 19-20th September 2019.

Screening of Women in Science-NASI-Elsevier Scopus Young Scientists Awards- 2019, |Monday, 23 September, 2019, at the Elsevier office in Gurgaon.

Number of M.Phil./Ph.D. Degrees Awarded

Not Applicable (as all participating members are part of the Department of Plant Molecular Biology and Ph.D. students are enrolled in the department)

Faculty Strength

5 (Permanent)

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

Major Activities and Achievements

A centralized facility with sophisticated analytical instruments is maintained by the University Science Instrumentation Center for all researchers and faculty members of science departments and constituent colleges of the University of Delhi. The center is open 6 days a week (9:00 am to 5:30 pm.)

The following instruments are presently available.

Vibrating sample magnetometer

Bruker High resolution X-ray diffractometer

Perkin Elmer FTIR spectrometer with ATR & Specular reflectance

Agilent LCMS with Quadropole time of flight

Thermal analysis Perkin Elmer TGA, DTA and DSC

Waters Differential Scanning Calorimeter

Jeol 400 MHz Nuclear Magnetic resonance

TEM sample preparation equipment
Critical point dryer
Jeol scanning electron Microscope (SEM) with EDS
FEI High Resolution Transmission electron microscope (TEM)
CHNS Analyzer
Liquid nitrogen (LN2) storage tank and distribution facility
Renishaw Laser Raman Spectrometer
Cary Eclipse Fluorescence spectrophotometer
Time resolved Fluorescence spectrometer (Horiba Yvon)
Sentech Ellipsometer
Upconversion and downconversion fluorescence spectrometer
Linesis TGA with auto sampler
Thermo fisher FTIR spectrometer with FIR attachment
Broadband Dielectric/impedance analyzer (mHz to 10 MHz)
Jasco Circular dichroism spectropolarimeter
B.E.T. surface area analyzer
Zeiss FESEM
Single crystal X-ray diffractometer
Nikon confocal microscope

Conference organized: Training course have been organized as detailed below:

Three week training for 73 lab staff from DU science Colleges and University Departments (17 Feb – 8 March, 2020).

WOMEN'S STUDIES AND DEVELOPMENT CENTRE (WSDC)

Major Activities and Achievements

Women's Studies & Development Centre for Advanced Studies (WSDC) offered the interdisciplinary Advanced Certificate Course- in *Gender and Development* organised for post graduates, research scholars and teachers. Course included lecture, public lectures, national workshop and a special Interaction at Grassroots.

It was important for students to understand the need of development from different stand points. To give them that exposure they were taken on field trip with the help of SEWA.

Women's Studies and Development Centre for Advanced Studies held a **workshop in collaboration with CATRA, IIT Bombay on GIS application for social sciences** from 25th June to 27th June, 2019 at IIT Bombay.

A Five-day National Workshop was held on *The Labour of Women: Perspectives and Debates on Development* was organized in collaboration with Centre for Women Development Studies, New Delhi

from 16th December, 2019 to 20th December, 2019. The workshop was conducted in participatory mode. The afternoon sessions in particular were with a discussant around the prenoon session.

Honours/Distinctions

The Centre's ongoing research project on 'The NMC' will provide major outcomes on the manner in which social changes are affecting gender relations and processes of gender-identity formation.

The Centre's advanced Course is popular with cross section of students belonging to different departments. This Centre provides the unique interdisciplinary space and interaction to the students.

Research Projects

Research Projects	Funds	Duration	Outcome
Gender & new middle class	From UGC annual grant; DU	2019-ongoing (Data collected from field sites)	1. Used for teaching 2. Data collected from two field sites

Seminars Organized

National Workshop organized on *The Labour of Women: Perspectives and Debates on Development* was organized in collaboration with Centre for Women's Developments Studies, (CWDS), New Delhi from 16th - 20th December, 2020 at WSDC, DU.

The workshop began with an introduction from Dr. Manjeet Bhatia, Associate Professor, WSDC. Dr. Bhatia highlighted the purpose of organizing the five-day national workshop. Professor Jaya S Tyagi, added that the idea of development can be best looked at historically and one may, in varied ways, begin to understand the matrix of development and gender. She talked about the role of women in the Indian context and compared it with the ancient and modern times.

Name of Speaker	Title of Talk	Date
Prof. Jaya S. Tyagi Dr Manjeet Bhatia	Welcome About the workshop	16.12.2019
Prof. Neetha N.	Comments	16.12.2019
Prof. Surajit Mazumdar.	Approaches to Development	16.12.2019
Prof. Sukrita P. Kumar Dr Manjeet Bhatia	Using Literary Approach to discuss development approaches	16.12.2019
Prof. Chitra Joshi	The posts and present of labour commissions codes and contracts-I	17.12.2019
Prof. Indu Agenihotri	Understanding critical perspectives on women's labour in the pre-independence period (Urban –Rural)	18.12.2019
Prof. Chirashree Dasgupta	Valuing & Value of Women's work	18.12.2019
Prof. Sumangala Damodaran	Development debates and women's work	19.12.2019
Prof. Smita Gupta	The Land question	19.12.2019
Prof. Indrani Mazumdar	The Pasts and Presents of labour: Commissions, Codes and Contracts-II	19.12.2019
Moderators- Prof Neetha N. Pillai, Dr Manjeet Bhatia, Prof Indrani Mazumdar	Presentations by participants	20.12.2019

Women's Studies and Development Centre *for* Advanced Studies held a **workshop in collaboration with CATRA, IIT Bombay on GIS application for social sciences** from 25th June to 27th June, 2019 at IIT Bombay.

A group of research scholars and teachers from Delhi University, Ambedkar University, Delhi and IIT, Dharwad participated. Idea was to bring technology and social sciences together. Participants were given intense hands-on training to use different data portals to get data, and use *census GIS India* to analyze Indian states and districts on the basis of different categories.

WSDC offered following Public Lectures

DATE	PUBLIC LECTURES TOPIC	RESOURCE PERSON
11-02-2020	Women and Law, Civil Society and Social Movement	Indu Agnihotri Manjeet Bhatia
14-02-2020	Intersectionality	Krishna Menon
18-02-2020	Feminist Everyday Political Economy:	Shirin M. Rai
25-02-2020	Budget 2020 and Gender Budgeting	Asha Kapur Mehta

Grassroots Interaction

Advanced Course students were divided in two groups and were taken to SEWA centres working in outskirts of Delhi. Students interacted with SEWA members and their coordinators. Students interacted with women doing embroidery, those managing members' bank and the street hawkers. It was an exposure to understand how informal economy work and difficulties of those at the receiving end. It was training for students to learn how important it is for this end of workers to link up with a facilitator like SEWA to claim their rights.

Seminar/Conference Presentations

Faculty made presentations in Advance Course and in Workshops.

Other Inter-Institutional Collaboration

WSDC, collaborated with CATRA, IIT Bombay on *GIS application for social sciences* from 25th June to 27th June, 2019 at IIT Bombay

WSDC, collaborated with CWDS, New Delhi to hold a five day national workshop on *The Labour of Women: Perspectives and Debates on Development* on 16th December-20 December, 2019

WSDC collaborated with SEWA to get interaction at grassroots for its course students. SEWA coordinators also made presentations for the students.

Extension and Outreach Activities

WSDC draws students from various constituent colleges, departments and Faculties of University of Delhi and other State and Central Universities across India.

Students drawn from University of Delhi offer the centre with a cross-section of participants across different regions, nationality, ethnicity, promoting inclusive and holistic learning irrespective of gender, caste and identity.

Post graduate and Research Students across diverse disciplines in Natural Science, Mathematics, Commerce, Humanities and Social Science Management participate in the courses offered by WSDC. They bring with them learning and perspectives from their fields that blends with the interdisciplinary approach offered by the centre and women's studies as a field.

International Students of DU and other institutions have also participated in the courses offered at the centre.

The staff and faculty at WSDC have a harmonious blend of cultural and regional variation. Bilingualism (Both English and Hindi) as a mode of communication and discourse for teaching and research is promoted and followed.

Faculty Strength

Permanent: -- One Director, One permanent faculty.

Prof. Jaya S. Tyagi, Director (Additional Charge)

Dr Manjeet Bhatia, Associate Professor

Other Significant Information

The Centre has done partial field work of New Middle Class (NMC) research project under UGC-CAS and done data entry of the data collected at Delhi-NCR and Kolkata, with limited resources. WSDC had to shelve rest of the field work due non availability of resources. However, a few case studies have been done under the project's second phase.

An Interim report of the project has been prepared.

WORLD UNIVERSITY SERVICE HEALTH CENTRE

Major Activities and Achievements

The W.U.S. Health Centre came into existence on 19th March 1955. The present building is more than 65 years old. A number of new facilities have been added over the years.

The W.U.S. Health Centre (North Campus) caters to approx 1,61,500 beneficiaries i.e. Regular, Retired Employees and their dependents, Resident & Non-Resident Students and Ad-hoc employees (teaching). Total OPD attendance for the financial year 2019-20 was 1,04,865 and the total clinical services (Physiotherapy, Pathology Lab., Nursing and Dressing) was 36,513. Approximately 470 patients sought consultation in OPD per day. These numbers are ever increasing.

WUS Health Centre (South Campus) caters to approximately 16,000 beneficiaries. Approximately 90 patients avail W.U.S. Health Centre (South Campus) OPD facilities per day (six days per week).

W.U.S. Health Centre (East Delhi) caters to approximately 5132 beneficiaries. Approximately 20 patients avail W.U.S. Health Centre (East Delhi) OPD facilities per day (five days per week).

W.U.S. Health Centre (West Delhi) caters to approximately 5561 beneficiaries. Approximately 40 patients avail W.U.S. Health Centre (West Delhi) OPD facilities per day (five days per week).

Total OPD attendance of W.U.S. Health Centres for the financial year 1st April, 2019 – 31st March, 2020 is as follows:

North Campus: 1,04,865

South Campus: 21,484

East Delhi: 4,138

West Delhi: 9,041

Total Clinical Services of W.U.S. Health Centres for the financial year 1st April, 2019 – 31st March, 2020 is as follows:

North Campus: 36,513

South Campus: 7,995

East Delhi: 241

West Delhi: 1,498

In addition to routine Health Services, W.U.S. Health Centre (North) also provided emergency health services even on Sundays/Gazetted Holidays during following Tournaments/Other University Functions organised by University of Delhi:

96th Annual Convocation: 4th November, 2019

Inter College Football Tournament: December, 2019

71st Republic Day Programme: 26th January, 2020

Blood Donation Camp: February, 2020

62nd Annual Flower Show: 29th February, 2020

On the occasion of Holi: 10th March, 2020

World Health Day was celebrated in W.U.S. Health Centre (North Campus) on 7th of April 2019. The theme of this year's World Health Day was Universal Health Coverage: Everyone, Everywhere. Leaflets highlighting the issues regarding Universal Health Coverage were disseminated to all the Faculties/Departments/Centres/Colleges/Hostels which was highly appreciated by everyone. An article on Universal Health Coverage: Everyone Everywhere was uploaded on University of Delhi website and W.U.S. Health Centre website for the information of University fraternity.

Pyrethroid Insecticidal Spray was done intensively in the whole of the University Campus area and University Enclave colleges. Leaflets highlighting the issues regarding Dengue Fever, Chikungunya, Malaria and Seasonal Influenza were distributed to all the Faculties/Departments/Centres/Colleges/Hostels which was highly appreciated by everyone. Articles on Dengue Fever, Chikungunya, Malaria, Hypertension and Seasonal Influenza were uploaded on the University of Delhi website www.du.ac.in and W.U.S. Health Centre website <http://wushealthcentre.du.ac.in> for the information of University fraternity.

In view of Corona Virus Disease (COVID-19) Pandemic, an advisory highlighting this disease, treatment, preventive steps to be scrupulously followed, details of Quarantine measures, prognosis was promptly uploaded on University of Delhi website www.du.ac.in and W.U.S. Health Centre website on 1st January, 2020 for the information of University fraternity and series of seminars were hosted in W.U.S. Health Centre, North Campus and Delhi University Women Association (DUWA) premises from time to time for the information of beneficiaries and the public which was highly appreciated.

Even though COVID-19 pandemic was in its full spate still W.U.S. Health Centre (North Campus) was functional 24 x 7 hours. Timely advisories regarding impact of COVID-19 Pandemic and Universal Immunization Programme facilities, dietary advice during COVID-19 Pandemic and Psychosocial impact of COVID-19 Pandemic on the Health of Staff and Students were uploaded on Delhi University website www.du.ac.in.

Health checkup camps, Cardiac checkup camps, Diabetes control camps have been organized in collaboration with reputed Hospitals from time to time.

Existing Facilities:

The W.U.S. Health Centre (North Campus) provides 24 x 7 hours services for the University employees, their dependents and students except on Sundays/Gazetted Holidays from 10:30 AM to 08:00 PM.

OPD Timings: MONDAY to SATURDAY*

Morning Duty: 08:00 AM to 02:30PM

Evening Duty: 01:30 PM to 08:00PM

Night Duty: 08:00 PM to 08:00AM

In the Evening shift 2 Part-time Medical Officers and 1 Full time Medical Officer examine the patients.

Sunday/Gazetted Holiday: 00:00 hours to Till 10:30 AM.

Night Service: All Days (Emergency services only)

W.U.S. Health Centre (North Campus) is the nodal point and has a team of 12 dedicated Medical Officers [including 1 medical consultant on contract, 3 Medical Officer on contract and 3 Part-time Medical Officers (against 2 sanctioned posts of Medical Officers)], 12 Visiting Part-time Specialists [who provide Specialized services for two hours in Cardiology (thrice per week), Neurology (once per week), Psychiatry (once per week), Orthopaedics (five days per week), E.N.T. (five days per week), Paediatrics (four days per week), Dermatology (4 days per week), Ophthalmology (thrice per week), Dental (3 hours, six days per week)], 6 Permanent Pharmacists, 2 Pharmacist on Contract, 2 Physiotherapists, 1 Nurse, 4 Dressers, 1 Technical Assistant (Pathology Laboratory), 5 Ministerial Employees, 16 Employees on Contract, 3 Ambulance Drivers.

W.U.S. Health Centre (North) has a Pathology Laboratory, Physiotherapy Unit, Nursing Station, Dressing Room and is equipped with Basic Life Support Ambulance to evacuate the patients to the nearest empaneled Hospital/Government Hospital in case of emergencies.

W.U.S. Health Centre (South Campus) caters to its beneficiaries from Monday to Saturday from 09:00 AM to 05:30 PM and on Saturday from 09:00 AM to 03:30PM. It has 04 Medical Officers [(including 01 Medical Consultant on contract and 02 part-time medical officers (against 1 sanctioned post of Medical Officer)], 03 visiting Part-Time Specialists [who provide Specialized services for two hours in

Ophthalmology (twice a week), Dentistry (thrice a week) and Cardiology (thrice a week)], 2 Pharmacists, 1 Physiotherapist on contract, 1 Ambulance Driver. This Health Centre has a Pathology Laboratory, Physiotherapy Unit, Dressing Room and is equipped with Basic Life Support Ambulance.

W.U.S. Health Centre (East Delhi) and W.U.S. Health Centre (West Delhi) cater to their beneficiaries from Monday to Friday from 09:00 AM to 03:30 PM. These Health Centres have 1 full time Medical Officer, 2 Pharmacists and 1 Dresser. These Health Centres have a Medical Store and Pharmacy.

Seminars Organized: 05

Conferences/Continuing Medical Education (CMEs) organized: 20

Extension and Outreach Activities: Delivered several Public Health Lectures on COVID-19 Pandemic and Vector Borne Disease in different Colleges affiliated to the University.

Doctors' Strength

1 Chief Medical Officer, 7 Permanent Medical Officers. 3 Medical Officer on contract, 2 Medical Consultants on contract, 5 Part-time Medical Officers (against 3 sanctioned posts of Medical Officers), 15 Part-time Visiting Specialists.

Other Significant Information

Health Centre (North Campus) was operational 24 x 7 hours even during COVID-19 Pandemic.

Provision of branded high-quality medicines from Government Medical Store Depot (GMSD).

Provision of High-quality Medical care to the patients.

Provided Medical Cover to the Dignitaries and during Sports activities.

Quick and timely disposal to the patients.

Timely disposal of Medical claims of reimbursement, purchase of Oxygen Concentrators, BiPAP Machines for employees of University and Colleges.

Timely disposal of medical examination of fresh appointees/commutation of pension.

Timely holding of series of meetings for the finalization of tenders for the purchase of Drugs & Medicines for the F.Y. 2019-2021.

DEPARTMENTS

FACULTY OF APPLIED SOCIAL SCIENCES & HUMANITIES

Department of Finance and Business Economics

Major Activities and Achievements

Book

Sanjay Sehgal, Wasim Ahmad, Piyush Pandey & Sakshi Saini, *Economic and Financial Integration in South Asia: A Contemporary Perspective*, (2020), Research Book, Published in Routledge, Taylor & Francis Group (ISBN 9780815380139).

Faculty Development Programmes

The Department of Business Economics organized a seven-day workshop on Advanced Topics in Macroeconomic Theory and Policy (Convenor: Dr. Ananya G. Dastidar) in collaboration with Teaching Learning Centre, Ramanujan College, University of Delhi (under Pandit M. M. Malviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD) from 6th to 14th March 2020 at the Arts Faculty Building, South Campus, University of Delhi. The workshop saw participation of teachers and research scholars from across the country.

The Department organized a National Faculty Development Programme on, “**Research Methodology and Teaching Pedagogy**” in association with Ramanujan College, University of Delhi and Indian Accounting Association for Delhi University Teachers and Research Scholars, from April 30, 2019 to May 5, 2019 under the Scheme Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, Ministry of Human Resource Development.

The Department organized Faculty Development Programme on “**Multivariate Data Analysis**” (Sharpening your Skills in Statistical Applications)” in Association with Ramanujan College, Department of Commerce & Indian Accounting Association in October 2019

Publications

Agrawal, T. J., Sehgal, S., & Agrawal, M. R. (2019). Determinants of successful Agri - futures contracts in India. *Asian Journal of Finance & Accounting*, 11(2). <https://doi.org/10.5296/ajfa.v11i2.15469>

Agrawal, T. J., Sehgal, S., & Agrawal, R. (2020). Disruptive Innovations, Fundamental Strength and Stock Winners: Implications for Stock Index Revisions. *Vision*, 24(3), 356-370. <https://doi.org/10.1177%2F0972262920928890>

Agrawal, T. J., Sehgal, S., & Vasishth, V. (2020). Firm Attributes, Corporate Fundamentals and Investment Strategies: An Empirical Study for Indian Stock Market. *Management and Labour Studies*, 45(3), 366-387. <https://doi.org/10.1177/0258042X20927995>

Arora, Preeti, M., Dastidar, Ananya Ghosh and Das, Mausumi (2020). Inter-linkage between Credit and Housing Prices in India: Some Preliminary Findings’ in Datta, M., Mahajan, R. and Bose, M. (eds.) ‘Business, Economics and Sustainable Development : The Emerging Issues’, New Delhi: Bloomsbury, pp.291-308.

Chowdhury, T.R. (2019), “Growth and employment in India’s Organized Manufacturing: Kaldorian perspective”, *Journal of Economic Policy and Research*, Volume 14 No.2.

Chowdhury, T.R. (2019), “Women’s employment in India’s Organized Manufacturing Sector: An Empirical Analysis”, *International Journal of Commerce and Management*, Volume 10, 6-12

Dastidar, Ananya Ghosh and Ahuja, Rashmi (2019). A Perspective on the Slowdown in Private Corporate Investments in India, in Bandyopadhyay, S. and Dutta, M. (Eds.), *Opportunities and Challenges in Development*, Singapore: Springer, pp.31-50.

Gupt, Yamini and S. Sahay (2019) *Waste Management and Extended Producer Responsibility: Lessons from the Past*. *Economic and Political Weekly*, LIV (18).

Jain, P., & Sehgal, S. (2019). An examination of return and volatility spill overs between mature equity markets. *Journal of Economics and Finance*, 43(1), 180-210.

Kaul V.K. & Chowdhury T.R. (2019), "Building Renewable Energy Ecosystem for India's Sustainable Development", Chapter 2, Towards a Sustainable Future: Cross-Cultural Strategies, Practices and Advancements", ed. R. Kar & K. Tiwari, Bloomsbury India, ISBN 9789388414395

Kaur, Kajleen and Dastidar, Ananya Ghosh (2019). Monetary Policy Transmission in India: Interest Rate Puzzle, *The IUP Journal of Applied Economics* 18 (3), pp :37-58.

Mittal, A., Sehgal, S., & Mittal, A. (2019). Dynamic currency linkages between select emerging market economies: An empirical study. *Cogent Economics & Finance*, 7(1), 1681581.

Pandey, A., Sehgal, S., & Mittal, A. (2019). Board Busyness and Firm Performance: Evidence from India. *Theoretical Economics Letters*, 9(03), 453.

Sehgal, S., & Agrawal, T. J. (2019). Impact of Commodity Transaction Tax on Market Liquidity, Volatility, and Government Revenues: An Empirical Study for India. *Vikalpa*, 44(1), 12-29.

Sehgal, S., Bijoy, K., & Saini, S. (2019). Stock Market Linkages and Spillover Effects: An Empirical Analysis of Select Asian Markets. *Theoretical Economics Letters*, 9(5), 1447-1472.

Sehgal, S., Mittal, A., & Mittal, A. (2019). Dynamic Linkages between Brics and Other Emerging Equity Markets. *Theoretical Economics Letters*, 9(07), 2636.

Sehgal, S., Saini, S., & Deisting, F. (2019). Examining Dynamic Interdependencies Among Major Global Financial Markets. *Multinational Finance Journal*, 23(1-2), 103-139.

Sharma, G., Subramaniam, S., & Sehgal, S. (2019). Are Prominent Equity Market Anomalies in India Fading Away?. *Global Business Review*, 0972150918811248.

Vasishth, V. & Sehgal, S. (2019). Explaining Value vs. Growth Fallacy: An Empirical Study for Indian Market, *Asian Journal of Finance and Accounting*, 11 (2), 42-65. <https://doi.org/10.5296/ajfa.v11i2.15215>

Journals

- Published by the Department
- Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board

Research Projects

ICSSR-IMPRESS Project; Period: 2019 – 2021; Title: "India's Role in Indian Ocean Region: Stimulating Growth and Strengthening Strategic Interests", (PI: Prof. Vijay Kumar Kaul and Co – PI: Dr. Ananya Ghosh Dastidar); Amount Sanctioned : Rs. 15 Lakhs only.

Seminars Organized

Special Lectures

Following Special Lectures were organized from Industry Experts for MBA (Financial Management) students of the Department:

April 2019

- Suraj Malik, Partner, BDO LLP
- Ankur Srivastava
- Nipun Sahni, Apollo Global Management

- Sanjay Garg, Partner, PwC
- Anshul Jain, Cushman and Wakefield

August 2019

- Mr. Love Gupta, Assistant Vice President, Barclays Credit Risk Modelling on An overview of Business Planning and Analysis in the Banking Industry.
- Mr. Manish Gupta Director, UBS on Credit Risk Modelling.

September 2019

- Mr. Arun V , Senior Manager, Valuations , Transaction Advisory Services , Ernst & Young LLP.
- Mr. Gaurav Jain, Group Head - Research Support at Fidelity International, for interactive and insightful session on Valuation aimed at equipping the students with the adroitness to succeed in the Business Valuation field.

November 2019

- Mr. Ramnish Kochgave, President - Investment Banking and Head ECM, Elara Capital delivered special lecture under Industry Connect Program.
- Mr. Arun Thukral, MD and CEO at Axis Securities was invited in the Department for a guest lecture under Industry Connect Program.

January 2020

- Mr. Mohankrishnan MK, Director Model Risk Management, ANZ Bank delivered a special under Industry Connect Program.

February 2020

- Anil Jaisingh, Vice President, Moody's Investor Service
- Ankush Saxena, Director, EY
- Varunn Kaushik, Data Scientist, RBS

Following Seminars were organized from Industry Experts for MBA (Business Economics) students of the Department:

- Apoorv Srivastav, Director Marketing, Grofers, Opportunities and Challenges after DBE, 6th Feb 2020
- Nupur Bansal, Senior Director, Axtria- Ingenious Insights, Disconnection in the Connected World, Success through Synergy, 6th Feb 2020
- Neha Tiwari, Associate Director, KPMG, Evolution of Service (Consulting) Industry, 6th Feb 2020
- Shankar Adawal, Head of Regulatory and Corporate Affairs, Reliance JIO, Evolution of Industries over the Decade: Growth and Opportunities, 6th Feb 2020
- Rachana Khandelwal, Vice President, JP Morgan, COVID-19 Impact on Business and Economy, 23rd May 2020
- Atul Tripathi, Chief Data Scientist, Tech Mahindra, Analytics Risk Management, Energy Markets, Insurance and about the application of machine learning and block chain, 25th Jan 2020

- Anil Padmanabhan, Head- India Finance Shared Services, the future of Finance and how RPA, AI and Automation is changing the landscape, 13th Feb 2020
- Umang Katyal, Associate Director & Senior Wealth Specialist-Standard Chartered Bank, Opportunity and growth in wealth Management
- Rohit Pathak, Chief Executive Officer, Aditya Birla Power Composites, My leadership journey and lessons for young leaders, 29th August 2020

Conferences Organized

1. The MBA (Finance) organized its 32nd Annual Convention on “**Innovations and Challenges in Financial Services**” on September 21, 2019. The Convention was inaugurated by Dr. C.S. Mohapatra, Additional Secretary (BC&FDSC), Department of Economic Affairs, Ministry of Finance, Mr. Vineet Arora delivered Mr. Vineet Arora, MD & CEO, Aegon Life. The speakers included: Mr. Vinod Kashyap, Expert & Director, NextGen, Vikas Sharma, MD, Sunworks Consultation, Debajani Mohanty, Senior Architect, NIIT Technologies Ltd., Mr. Sanjay Menon, Managing Director, Sapien India, Mr. Dipesh Shah, Head, GIFT City, Gujarat, Mr. Kumar Kushal, Global Chief Technical Officer, Tiller International, New York, Mr. Rajat Bhatia, Co-Founder, Open Market Blockchain, Founder & CEO Neutral Capital, Dean of School of Financial Engineering, Mr. Raman Aggarwal, Chairman, FIDC, Mr. V. Shunmugum, Research Head, MCX, Dr. Rajendra P. Srivastava, Ex Ey Professor and Ex Director, EY – Centre for Auditing & Research on Advanced Technologies, Mr. Sunil Sharma, Vice-Chairman, Azure Power
2. The Department organized 10 major student events: HR Conclave, A Day with Alum, The Annual Convention, Imprints, Reminiscence, Genesis, Moolyankan, Vishleshan, Markquest, and Arthiniti. In terms of achievements we were ranked at the 26th Best B-School to study with by Outlook, 2020. For Placements we have had 91% student placement with 32 companies visiting the campus. The highest package was 21.5 LPA and the average went upto 11.97 LPA. In terms of summer internships, the maximum stipend offered was 2 Lakhs (for 2 months). Of the companies visiting the campus, 36.53% of the companies feature in the Forbes 500 Companies list.
3. HR Conclave “Symposia”: Transforming Work and Workforce, 7th Sept 2019
4. Vishleshan “The Future of Big Data: Ethics, Management and Governance”, 14th Sept 2019
5. Moolyankan “Challenges and Opportunities Involving Financial Landscapes, 18th Jan 2020
6. Markquest “Tradigital Marketing: Traditional Marketing in a Digital Era”, 22nd Feb 2020
7. 46th Annual Convention “Economic Slowdown and Unemployment in India: Key Issues and Solutions” 2nd Nov 2019.
8. Imprints “The Means of Transportation/Transformation”, 6th Feb 2020

Seminar/Conference Presentations (National / International)

National

Dr. Ananya Ghosh Dastidar was invited as Resource Person and made presentations on Draft Syllabus of M.A. Economics in the “National Workshop for Structuring Outcome Based Post Graduate Syllabus in Economics”, organized by the Inter University Centre for Alternative Economics in collaboration with Board of Studies (PG), University of Kerala, during 17th to 19th February, 2020.

Dr. Yamini Gupt delivered a special lecture on “Biodiversity Conservation and Human Capital,” during Distinguished Speaker Series on “Building Human Capital Education, Health and Happiness” at Janaki Devi Memorial College, University of Delhi on 21st January 2020.

Dr. Yamini Gupt delivered a special lecture on “Quantification of Ecosystem Services” at GSDP Course on “Valuation of Ecosystem Services and Green GDP” on 30th January 2020 in New Delhi. Organized by SPA-ENVIS (MoEF & CC).

Dr. Yamini Gupt delivered a special lecture on “Valuation of Ecosystem Services” at GSDP Course on “Valuation of Ecosystem Services and Green GDP” on 3rd February 2020 in New Delhi. Organized by SPA-ENVIS (MoEF & CC).

International

Professor Sanjay Sehgal

1. Paper entitled, “Round the Clock Price Discovery of Gold” presented at India Gold Policy Conference, New Delhi from 7th and 8th of February 2020.
2. Paper entitled, “Who Leads in Price Discovery of Gold?” presented at New Zealand Finance Meet at Auckland, New Zealand from 18-20th December 2019.
3. Paper entitled, “Who Leads in Price Discovery of Gold?” presented at 32nd Australian Finance and Banking Conference, Sydney, Australia from 16-18th December 2019.
4. Paper entitled, “Time-Varying Government Bond Market Integration in Asia: Dependency and Connectedness” presented at Sydney Banking and Financial Stability, Sydney Australia, 2019.
5. Paper entitled, “Who Leads in Price Discovery of Gold?” presented at Vietnam International Conference in Finance, Danang, Vietnam from 4-5th July 2019.

Dr. Yamini Gupt

1. Dr. Yamini Gupt was Keynote Speaker (Topic: How China and India are connected—from the Past to the Present. The Vital Role of India and China in the Global Context.) at the India -China Youth Exchange Programme, organized by Department of Youth Affairs, Government of India on 22nd Nov. 2019 in New Delhi.
2. Yamini Gupt and Srishty Kasana, "Climate Change: Impact on Woman Farmers, Wheat and Rice Yield in India" (presented by co-author) at ICBESD 2020 (**International** Conference on Business, Economics and Sustainable Development) on 02-03 March, 2020.

Students under Exchange Programme

- Two students of MBA (Financial Management) Programme attended Summer Internship at ESC PAU, France
- Five students of ESC PAU, France attended January to April Semester at our Department

Placement Details (Number and percentage of students placed)

MBA (Financial Management)

- Final Placements - 37 placed out of 39 (95%)
- 11 companies visited for campus recruitment

MBA (Finance)

- Summer Placements - 37 placed out of 40 (92.5%)
- 12 companies visited for campus recruitment

MBA (Business Economics)

- 51/55: 91% students placed
- 32 companies visited the campus for final placements

Extension and Outreach Activities

The **Yoga Day** was celebrated in the Department of Financial Studies, University of Delhi South Campus on June 21, 2019 at 11.00 a.m. The Head of the Department Prof. Sanjay Sehgal, Ph.D. scholars and non-teaching staff of the Department participated in the Yoga Session. Breathing exercises including pranayam, kalapalbhati, anulomvilom, Bhastrika and Bhramari were performed by the participants. The participants also performed yogasanas such as surya namaskar, tadasana, vrikshasana, adha mukho savasana, trikonasana, naukasana, bhujangasana, etc.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 7

M.Phil. : N.A.

Faculty Strength – 15

FACULTY OF ARTS DEPARTMENT OF ARABIC

Major activities and achievements

The Department of Arabic organized a two-day National Seminar on the topic “Arabic Journalism in India” on 4-5 March, 2020. The Department of Arabic organized a Lecture under Prof. K. A. Fariq Memorial Lecture Series – 13 on the topic “Contribution of Bihar to Arabic Literature with reference to the rare Manuscripts in Khuda Baksh Oriental Library” delivered by Dr. Atiqur Rahman on 4th March, 2020.

Publications

Akhtar, S. H. (2019). A Paper on Istenade Nahjul Balaghah aur Maulana Arshi, published in Salooni, volume 8- issue 1, June- Aug 2019 (ISSN 2348-2567)

Akram, M. (2019). A Research Article published in a Quarterly Journal “Salooni” Vol. 8 “& Issue:1, June to August 2019 on the topic “Nehjul Balaghah Aur Sharh-e-Mohammad Abduh: Aek Mutala”.

Hasan, N. “*Prof. Khursheed Ahmad Farique in the light of his writings*”, Majallah Al-Dirasat Al-Arabia, Journal of Arabic Studies, An Annual Research Journal of Arabic Language & Literature Vol. 16, December 2019 ISSN 2231-1912, Published by Post Graduate Department of Arabic, University of Kashmir, Srinagar, pp 35-42.

Hasan, N. (2020). “Values and Morals in the writings of Abdul Hameed Judah al-Sahhar”, Majallah al-Majmaul Ilmi al-Arabi al-Hindi”, Published by Publication Unit, Aligar Muslim University, Aligar, ISSN 2250-0413, Vol. 38, No. 2.2018-19, June 2020, pp. 73-82.

Hasan, N. (2019). Module I, entitled: “*Know Yourself*” in a co-authored chapter in a multiple authorship book entitled: “Dareecha -e- Aagahi” (Urdu) Vol. I, prepared as a part of UNFPA sponsored project known as ‘Development of Adolescence Education Curriculum for Madrasas of Bihar’, published by Department of Educational Studies, Faculty of Education, Jamia Millia Islamia, New Delhi- 110025.

Khan, M. N. Arabi-Islami Warse ke Pasbane Amin: (Prof Mohammad Fuat Sezgin), in “Alam-e- Islam ka Be-Misal Mohaqqiq Dr. Fuat Sezgin, compiled by Shah Ajmal Farooq Nadwi, Institute of Objective Studies, New Delhi-110025 (ISBN 978-93-84973-80-3). Pp. 75-84.

Khan, M. N. (2019). Taareekh al-Tibaa’at bi-al-‘Arabiyah Fee al-Hind, Journal of Arabic Studies, University of Kashmir, Srinagar, No. 16 December 2019 (ISSN 2231-1912). Pp. 7-20.

Khan, M. N. (2019). Professor Farhana Siddiqui: Kuchh Ta’assuraat, in “Prof. Farhana Siddiqui, Kuchh Yadein Kuchh Batein”, compiled by Dr Mahfoozur Rhman, Azra Book Traders, New Delhi 2019 (ISBN 978-881-94300-1-4)

Khan, M. N. (2020). Khutbaat (Prof. Khurshid Ahmad Fariq Lecture Series 1-11), compiled and edited, Department of Arabic, University of Delhi’s Publications-1, Delhi 2020 (ISBN 978-81-944554-5-5).

Seminars Organized

The Department of Arabic organized a two day National Seminar on the topic “Arabic Journalism in India” on 4-5 March, 2020.

Seminar/Conference Presentations

Dr. S. Hasnain Akhtar, Participated and presented a paper in an International Scientific Conference held in Navoi, State Pedagogical Institue Navoi Uzbekistan, on 28- 29 May 2019

Dr. S. Hasnain Akhtar, Participated and presented a paper in International Imam Ali Conference in New Delhi, on 17 August 2019.

Dr. S. Hasnain Akhtar, Participated and presented a paper in an International Conference on The Contribution of Nawabs and Kings of Awadh in promotion of Persian, Arabic and Urdu language and literature, held on 27- 29 Jan 2020.

Dr. S. Hasnain Akhtar, Participated and presented a paper in in JTA Multidisciplinary International Coference held in Jamia Millia Islamia New Delhi on 16- 18 Feb 2020

Dr. S. Hasnain Akhtar, Participated and presented a paper in a National Seminar on Hindustan me Tarjuma Nigari: Fan aur Riwayat, held on 2- 3 March 2020

Dr. S. Hasnain Akhtar, Delivered a special Lecture on Contribution of Indian Scholars to promote Arabic Language and Literature in Hamidia Degree College, University of Allahabad, on 17 Jan 2020.

Dr. S. Hasnain Akhtar, Delivered a Lecture on Promotion of Arabic Language and Literature in India, in Zakir Husain Delhi College, University of Delhi on 17 March 2020.

Dr. Naimul Hasan, Two-Day National Seminar on “Hindustan Mein Tarjama Nigari: Fan O Riwayat organized by Department of Arabic, Jamia Millia Islamia, New Delhi in Collaboration with National Council for Promotion of Urdu Language, on March 02&03, 2020. Paper presented on the topic: “Al-Ajnehatul Mutakassirah ke Urdu Tarjama “Tute Huway Par” ka Tajziyati Mutalaa”.

Dr. Mujeeb Akhtar, Participated and presented paper entitled “Ethos of Indian Culture in Haikal’s writing” in JTA Multidisciplinary International Conference (JTACON-2020) organized by the Jamia Teachers Association (JTA), Jamia Millia Islamia, New Delhi from February 16-18. 2020.

Dr. Mujeeb Akhtar, Participated and presented paper entitled “Nuqush-e-Iqbal Urdu Tarjama Nigari Ka Shahkar Namuna” in the Two-day National Seminar on “Hindustan Mein Tarjama Niagari Fun-O-Riwayat” organized by the Department of Arabic, Jamia Millia Islamia, New Delhi on March 2 & 3, 2020.

Dr. Mujeeb Akhtar, Convener of the two-day National Seminar on “Arabic Journalism in India” organized by the Department of Arabic, University of Delhi on 4-5 March 2020.

Dr. Mohammad Akram, Presented a paper on the topic “Indian Culture in Ibn Batuta’s Travelogue” in an International Conference (JTACON-2020) organized by the Jamia Teachers Association (JTA), Jamia Millia Islamia, New Delhi from February 16-18. 2020.

Dr. Mohammad Akram, Presented a paper titled “Prof. Fariq aur Urdu –Arabi Tarjam Nagari” in the Two-day National Seminar on “Hindustan Mein Tarjama Niagari Fun-O-Riwayat” organized by the Department of Arabic, Jamia Millia Islamia, New Delhi on March 2 & 3, 2020.

Number of Ph.D./M.Phil. awarded

Ph.D.	–	4
M.Phil.	–	2

Faculty Strength

Permanent	-	6 (Professor- 1, Associate Professors- 2, Assistant Professors- 3)
Guest Faculty	-	2

DEPARTMENT OF BUDDHIST STUDIES

Major Activities and Achievements

During the Academic Session 2019-2020, the Department of Buddhist Studies organized several International and National Seminars and Workshop, and two Special Lectures were also delivered at the Department. The Department also organized an educational field tour to visit various Buddhist historical sites in the country. The faculty published many papers in reputed books and journals and also presented their papers at numerous seminars and conferences.

Publications (05)

Pavagadhi, Subhra Barua, “Practicing Vipassana for Social Harmony” in *Dharmadoot*, Vol. 85, November 2019 (ISSN:2347-3428), Maha Bodhi Society of India, Sarnath: 60-67.

Pavagadhi, Subhra Barua, “Social Disruption in the 21st Century: Right Direction Based on Buddhist Approach” in *GMNIS 2019* Proceedings, October 2019, Graduate School, Mahamukut Buddhist University, Thailand: 1707-1714.

Pandey, Satyendra Kumar, “Role of Buddhism in the Era of Fourth Industrial Revolution”, Vietnam Buddhist University Publications, May 2019, ISBN-978-604-89-7926-4, Vietnam: 91-116.

Pandey, Satyendra Kumar, “Role of Buddhism in the Era of Fourth Industrial Revolution”, Vietnam Buddhist University Publications, May 2019, ISBN-978-604-89-7926-3, Vietnam: 521-539.

Pavagadhi, Subhra Barua, “Women Empowerment in Early Buddhism” in *The Maha Bodhi*, Vol. 126, April 2019 (ISSN: 0025-0406), Maha Bodhi Society of India, Kolkata: 20-23.

Seminars Organized

Departmental Seminar organized every Friday during the academic session 2019-20.

The Department organized three one-day seminars on “Art of Satipatthana” in the on September 20, 2019, October 18, 2019 and January 24, 2020. Ven. Buddhapāla Mahāthera delivered lecture on the theoretical and practical aspects of “Insight Meditation” on the basis of the Majjhima Nikāya.

Seminar/Conference Presentations (07)

Dr. Nirja Sharma, Assistant Professor, Department of Buddhist Studies presented a paper titled “Boudh mudraun main prteekatmakta” at the International Conference on Ancient Wisdom civilizational antiquities and the Present-Day World organized by Gautam Buddha University, Gautam Buddha Nagar from 31st January to 2nd February, 2020.

Dr. Nirja Sharma, Assistant Professor, Department of Buddhist Studies presented a paper titled “Yuva shakti ke nirmaan main Buddhaavam” at the National Seminar on Vartamaan samay main Yuva shakti ke vikas main Pt. Deen Dayal Upadhyay ke vicaron ki prasangikta organized by I.N.M.P.G. College, Meerut from 5th Feb - 6th Feb. 2020.

Dr. Subhra Barua Pavagadhi, Associate Professor, Department of Buddhist Studies presented a paper titled “Bojjhangas: The seven factors of awakening” at the Rashtriya Vidvit Sangoshthi on Vaishvik chunautiyan evam Bhagwan Mahavir organised by Kashi Hindu Vishvavidyalaya, Varanasi on 18th April 2019.

Dr. Subhra Barua Pavagadhi, Associate Professor, Department of Buddhist Studies presented a paper titled "Role of Pali language in promoting cultural heritage" at the Sixth International Conference on Pāli and Buddhism organised by the Maha Bodhi Society of India at Sarnath from 10th – 11th November 2019.

Dr. Subhra Barua Pavagadhi, Associate Professor, Department of Buddhist Studies presented a paper titled "Emergence of Buddhist monasticism with special emphasis on the life of Shravaka Arahants as depicted in Theragatha" at the National Conference on Historical Perspectives on Early Buddhism organised by the School of Buddhist Philosophy & School of International Buddhist Studies, Sanchi University of Buddhist–Indic Studies, Sanchi from 26th – 27th November 2019.

Dr. Susmita Vyas, Assistant Professor, Department of Buddhist Studies presented a paper titled “Buddha, His Dhamma, and Rajgir”, International Conference on Ancient Wisdom civilizational antiquities and the Present-Day World organized by Gautam Buddha University, Gautam Buddha Nagar from 31st January to 2nd February, 2020.

Dr. Susmita Vyas, Assistant Professor, Department of Buddhist Studies presented a paper titled “पालि साहित्य की एकमात्र काव्य-शास्त्रीय रचना के रूप में सुबोधालंकार की कुछ प्रमुख स्थापनाओं का मूल्यांकन”, Sixth International Conference on Pali and Buddhism on the theme – “Role of Pali in promoting Cultural Heritage, Nov 10-11, 2019

M.Phil. / Ph.D. Degree Awarded

MPhil: 04

Ph.D.: 07

Faculty Strength

Permanent: 10

Other Significant Information

Dr. Susmita Vyas attended Refresher Course in “Yoga, Meditation and Sports” (IDC), UGC sponsored, organized by CPDHE from 3rd – 16th January 2020.

The Department of Buddhist Studies organized educational field tour from January 7, 2020 to January 17, 2020 to visit the historical sites of Bodh Gaya, Rajgir, and Nalanda.

The Department organized International Workshop on “Art of Satipatthana (Vipassana)” based on the Majjima Nikaya from January 11, 2020 to January 17, 2020 at Bodh Gaya, Bihar in collaboration with Bodh Gaya International Sati School (Mulasangha), Bodh Gaya.

Two special lectures were delivered at the Department of Buddhist Studies in the month of March 2020 –

Prof. D.K. Chakrabarty delivered a lecture under the K.K. Mittal Memorial Lecture in Buddhism.

Prof. W.C. Wang Chuk Dorje delivered a special lecture on Bodhicharyavtar.

DEPARTMENT OF ENGLISH

Major Activities and Achievements

During the period spanning from April 1, 2019 to March 31, 2020 the Department of English, University of Delhi organised a number of seminars and conferences apart from the regular activities of the Department. A Two-day International Conference on “Gandhi in the Private and the Public sphere: Image, Text and Performance” was held on 4-5, March 2020. A Two-day National Conference on “Culture and Aesthetics in Indian Folklore” was held on 28-29 February, 2020. A number of Academic Talks were also hosted by the Department under the aegis of its different centres such as Centre for Academic Translation and Archiving (CATA), Centre for Dalit Studies (CDS), and Centre for Violence, Memory and Trauma (CSVMT). Notable among them are as follows: “The Importance of Indian Constitution” on 26th November 2019, panel discussion on “Reassessing Premchand: Textualities and Translations held on 18 February 2020. Prof Sachidananda Mohanty delivered a series of lectures on the topics “Research Protocol in English Studies”, “The Future of Cosmopolitanisms” and “Stephen Greenblatt and New Historicism” respectively on 5th, 6th and 11th February 2020. Dr.KaustavBakshi was the DSA- SAP visiting fellow during the month of February and he delivered two talks on “Reading English Canonical Literature Queerly” on 18th February 2020 and “From the Street to the Academia: Emergence of the ‘Queer’ in Critical Theory” on 20th February 2020. Another visiting fellow Indranil Acharya delivered lectures on " Role of Ethnographic Research Method In English Studies" and "Endangerment of Minor Language Literature in the Post-Colonial Era" on 3rd March, 2020. Commemorative event for Prof G. K. Das was held on August 16, 2019. Sajni Mukherjee delivered a talk on “A very odd and Frightening Pamphlet”: Policing in Humphrey House’s Calcutta, 1936-38”. MehrAfshan Farooqi delivered a talk on “Ghalib and the Culture of Book Publishing”, 13 February 2020. Daniel McKay delivered a talk on “Natural Horsemanship, the Japanese enemy and Susan Brocker’s Dreams of Warriors”, 22 November 2019.

Honours/Distinctions (12)

Aneja, A. K. (2020). Received Rustom Merwanji Alpaiwalla Memorial Award 2020 under the Voluntary Category by National Association for the Blind (India) presented by the Hon'ble Minister of State for Social Justice and Empowerment, Govt. of India.

Aneja, A. K. (2019). Received State Award in the category 'Best Individual Working in the Field of Social Work' by the Govt. of NCT of Delhi, December, 2019 presented by the Hon'ble Minister for Social Welfare, Govt. of NCT of Delhi.

Aneja, A. K. Felicitated for exceptional achievements by the Blind Relief Association, Delhi in its Platinum Jubilee celebrations by Hon'ble Noble Laureate Kailash Satyarthi.

- Antony, Swetha. Judging Panelist in Literature Category in The Global Undergraduate Awards (2019).
- Bhattacharya, R. (2019). 21 June 2019 – 20 July 2019: Indo-German Faculty Exchange programme, University of Delhi & Potsdam University, Germany.
- Bhattacharya, R. (2020). February 24-28, 2020: Visiting Scholar under the UGC-DSA programme, Centre for Political Studies, Jawaharlal Nehru University, New Delhi.
- Dubey, Y. K. (2019). Member, judging panel for the Literature category of The Global Undergraduate Awards 2019 based in Dublin, Ireland.
- Dubey, Y. K. Member, English Syllabus (10+2) Revision Committee, NIOS, NOIDA, UP.
- Kumar, R. Member, Governing Body, Aryabhata College, University of Delhi, Delhi.
- Kumar, R. Member, Governing Body, National Institute of Social Work and Social Sciences, Bhubaneswar.
- Qadeer, H. (2019). 1 June 2019 – 17 July 2019: Visiting Fellow, Department of English, Potsdam University, Germany, 2019.
- Vats, N. (2019). Judging Panelist in Literature Category in The Global Undergraduate Awards (2019).

Publications (30)

Journal Articles (20)

- Aneja, A. K. (2019). "Testimonies of Success- Stories of Empowerment of Visually Impaired Women". Delhi: All India Confederation of the Blind. ISBN: 978-81-944557-0-7.
- Aneja, A. K. (2019) "Speaking for Our Own: Towards a Reaffirmation of the Voices of Disability-Specific Movements", *National Seminar on The Empowerment and Future Challenges of The Visually Impaired*, ISBN: 978-81-931407-2-7, A.K.S. Books: Chennai, pp. 145–158.
- Aneja, Anil K. "Loud Yet Unheard: An Interrogation of Select Indian Literary Works Through Disability Discourse" in the collection *Representations of Disability in Film, TV and Print Media*, accepted for publication in the edited volume by Michael Jeffress to be published by Routledge.
- Devadawson, C. R. (2019) 'Beyond Caricature,' *The Caravan*, 1-9.
- Dubey, Y. K. (2019). "Shakespeare and His Heterosexual Feminists." *International Research Journal of Management Sociology & Humanities*, Vol.10 www.IRJMESH.com
- Dubey, Y. K. (2019). "Shakespeare: A Heterosexual Feminist." *International Research Journal of Management Sociology & Humanities*, Vol.10 www.IRJMESH.com
- Kumar, R. (2020). 'Caste Narratives: Odia Dalit Women in Literature and Society' in *Women Reinventing Development: The Odisha Experience*, edited by Asha Hans et al. Aakar, Delhi.
- Kumar, R. (2020) 'Black Ink' (Odia Short Story in Translation). *Frontline*, 36, 26.
- Kumar, R. (2019) 'Baigapada: Biography of an Indian Village' in *Sambalpur Studies in Literatures and Cultures*, Series 5.

Kumar, R. (2019) 'Education as Emancipation: Reading Freedom through Dalit Narratives' in *Education and the Public Sphere: Exploring the Structures of Mediation in Post-Colonial India*, edited by G.S. Suresh Babu. Routledge, London.

Kumar, R. (2019) 'Social Dimensions of Dalit Movements: A Study of Dalit Struggles in Odisha' in *Samaj Sahitya Ke Prashna Aur Dalit Chetana* (Society, Literature and Dalit Consciousness) edited by Sheoraj Singh Bechain. Anamika Publishers, New Delhi, pp. 90-102.

Panja, S. (2019). "Marlowe and Shakespeare Cross Borders: Malta and Venice in the Early Modern World" *Early Theatre* 22 (1), 71-92.

Panja, S. (2019). "Interanimation of Word and Image." *Third Eye: Photography and Ways of Seeing*. Ed. Alka Pande. Delhi: Speaking Tiger.

Qadeer, H. (2019). "The City and the Beloved Witness: Mapping Delhi's Cityscapes in Agha Shahid's Poetry". *The Journal of Commonwealth*, pp. 1-17.

Qadeer, H. (2019). "Afterimages of 1947 Partition in Select Fiction". *Journal of The Faculty of Arts*, 11 (1), 113-124.

Qadeer, H. (2020). "Review Article: Reimagining Nations and Rethinking Futures: Contemporary Ecopolitical Controversies in India and Australia". *Thesis Eleven*, 158 (01), 145-148.

Qadeer, H. (2020). "Sultana ka Sapna" (Hindi translation of Rokeya Sakhawat Hosain's Sultana's Dream. Hans Hindi Magazine, pp. 78-84.

Raja, I. (2020). 'No Time to Die: Illness, Ageing and Death in Three Short Stories from India', *Caring for Old Age: Perspectives from South Asia*, ed Christiane Brosius and Roberta Mandoki, Heidelberg: Heidelberg University Press, pp.305-320.

Raja, I. (2019). 'New Literatures: The Indian Subcontinent and Sri Lanka'. *The Year's Work in English Studies*, 98, 1273-1283.

Raja, I. and Botnick, K. (2019). 'Aesthetics of Accommodation: Hand-Painted Signage and the Shaping of Public Spaces in India', *Transvisuality: The Cultural Dimension of Visuality*, ed Anders Michelsen and Frauke Wiegant and Tore Kristensen, Liverpool University Press, pp 41-61.

Book Chapters (6)

Antony, S. (2019). "The Vicious Circle: Heterotopia(s) in Dave Eggers' *The Circle* (2013)"; *Theorizing Space* (ed.) Babitha Justin, Gigy J Alex and Parasuraman M N. Trivandrum, Kerala: Bodhi Tree Books and Publications (ISBN 978-81-942668-5-3)

Antony, S. (2019). "The In-between Worlds in the Narrative called Nation: An analysis of the Depiction of Nation in Indian English Poetry"; *Contemporary Indian English Poetry and Drama: Changing Canons and Responses* (ed.) Arnab Kumar Sinha, Sajalkumar Bhattacharya, Himadri Lahiri, Cambridge Scholars Publishing (ISBN 978-1527533226)

Antony, S. (2019). "Ecotones as Loci of Cultural Diversity: Nature Culture Continuum in the Spatial Representations in Jhumpa Lahiri's *The Lowland*"; *Post Modern Indian Women Writers in English: Critical Concerns and Trends*. (ed.) Sandhya Tiwari, New Delhi: Research India Press, 2019 (ISBN 978-93-5171-159-9)

Bhattacharya, R. (2020) 'A text can come alive for and through the child in the classroom', *Dialogues: English Studies in India*, Rachna Sethi & AL Khanna, eds, Delhi: Aakar Books, pp. 70-77.

Dubey, Y. K. (2019) "The Significance of Folk Tales from the Perspectives of Aesthetics and Philosophy with Special Reference to Awadhi Folk Tales", *Folklore: A Key to Cultural Understanding*, ted by Swati Samantaray, Authors Press.

Vats, N. "Folktales of Magadhanchal: Myths and Interpretation"; *Folklore: A Key to Cultural Understanding* (ed. Swati Samantaray), ISBN: 978-93-89110-30-2.

Books (4)

Bhattacharya, R. (2019). *The Dancing Poet: Rabindranath Tagore and Choreographies of Participation*. New Delhi: Tulika Books.

Chattarji, S. (2019). *The Distant Shores of Freedom: Vietnamese American Memoirs and Fiction*. New Delhi, New York, London: Bloomsbury Academic.

Kumar, R. (2019) *Dalit Literature and Criticism*. Delhi: Orient BlackSwan.

Chattarji, S., Chakravarty, G. (Co-edited volume), (2019) eds. *Kunal Sen: Through War, Rebellion & Riot*. New Delhi: Orient Blackswan.

Journals

Department teachers serving as Editor(s)/Member(s) of Editorial Board (10)

Aneja, Anil K. Member, School Board of School of Languages, Central University of Jammu, February 2020-till date.

Aneja, Anil K. Member, Board of Studies, Department of English, Dayalbagh Educational Institute, Agra, February 2020-till date.

Aneja, Anil K. Member, Committee for Identification of posts for Persons with Disabilities, Nehru Yuvak Kendra Sangathan, Ministry of Human Resource Development, Government of India, June 2019-tilldate.

Aneja, Anil K. Member, Advisory Committee of the Commissioner (Disabilities), Govt. of NCT of Delhi, June 2019-tilldate.

Aneja, Anil K. Member, Committee on the Mobility of PwD students, Department of Social Welfare, Govt. of NCT of Delhi, May 2019-tilldate.

Aneja, Anil K. Member, Board of Studies, Department of English & Foreign Languages, Central University of Haryana, Mahendergarh, January 2019- till date.

Aneja, Anil K. Member, Committee to set up a Department for the Empowerment of Persons with Disabilities, 2018-tilldate.

Aneja, Anil K. Chairperson, Rehabilitation Committee, World Blind Union (an organization having consultative status with the United Nations), International Assignment for four years, 2016- till date.

Aneja, Anil K. Member. Indian Delegation to the World Blind Union, 2012-tilldate.

Aneja, Anil K. Chairperson, Advocacy Committee, All India Confederation of the Blind, 2009- tilldate.

Aneja, Anil K. Vice President, All India Confederation of the Blind, 2007- tilldate.

Antony, Swetha. Member, Linguistics Society of India, November 2019 onwards.

Chattarji, Subarno. Member, Scientific Committee, *Revue Lisa / Lisa e-Journal*, University of Rennes, France. <http://lisa.revues.org/3975#tocto1n5>

Chattarji, Subarno. Member, Editorial Advisory Board for Orient Black Swan Series Studies on Journalism.

Devadawson, Christel R. Member, Editorial Board, *The North India Church Review*, Delhi

Kumar, Raj. Member, Editorial Board, Fortell, Delhi.

Kumar, Raj. Member, Board of Studies, Banasthali, Rajasthan.

Kumar, Raj. Member, Board of Studies, Central University, Mahendergarh, Haryana.

Kumar, Raj. Member, Board of Studies, Guru Gobind Singh Indraprastha University, Delhi.

Kumar, Raj. Member, Editorial Board, Ravenshaw Journal of Literary and Cultural Studies, Cuttack, Odisha.

Kumar, Raj. Member, Board of Studies, Deenabandhu Chhotu Ram University of Science and Technology, Haryana.

Kumar, Priya. Member, Editorial Board Member, Departures in Critical and Qualitative Research (University of California Press) 2019-present.

Kumar, Priya. Editor, Postcolonial Studies (India Collective), Taylor and Francis, 2018-present.

Negi, Pooja. Member, Linguistics Society of India, November 2019 onwards.

Panja, Shormishtha. Member, Editorial Board, 96th Annual Report, Univ. of Delhi, April 2018-March 2019.

Qadeer, H. Member, Editorial Board, The Fountain Pen- English Research Journal, Higher Education Department, Government of Jammu and Kashmir.

Raja, Ira. Advisory Board, *Journal of Postcolonial Literary Inquiry*, 2012 –

Raja, Ira. Commissioning Editor, *Thesis Eleven*, 2012-

Raja, Ira. Associate Editor, *South Asia: Journal of South Asian Studies*, 2012-

Raja, Ira. Global Editorial Collective, *Postcolonial Studies*, 2014-

Vats, Nidhi. Member of Advisory Board, Ostrava Journal of English Philology, University of Ostrava (CZ).

Research Projects (04)

Antony, S. (2019). Under the aegis of University Grant's Commission-Special Assistance Programme, Phase III awarded to Department of English, University of Delhi December 2019, "Negotiating Caste Politics and Social Mobility through Orality and Performance: A Study of the Evangelical Oral, Literary and Performative Traditions of the Latin Catholic Community in Kerala", amount of INR 15,460/-

Devadawson, Christel R, Principal Investigator, UGC DAAD under Indo-German Partnership in Higher Education (IGP) Span period – 01 July 2016 – 30 June 2020.

‘Writing the Cosmopolitan Imagination: Genre Transactions in World Literary Space, value – INR 1722400/-

Panja, Shormishtha. Project (International): Shastri Indo-Canadian Project, “Hunger Pangs and Growing Pains” with Shelley Hulan, Univ. of Waterloo, Canada, 2017-2019.

Seminars Organized

Talk Hosted by the Department

Acharya, Indranil. Professor and former Head of the Department of English at Vidyasaga University, West Bengal. "Endangerment of Minor Language Literature in the Post-Colonial Era" on 3rd March, 2020.

Acharya, Indranil. Professor and former Head of the Department of English at Vidyasaga University, West Bengal. An Interactive session on " Role of Ethnographic Research Method In English Studies" on 3rd March, 2020.

Mukherjee, Sajni. Former Professor of English, Jadavpur University, “ A very odd and Frightening Pamphlet”: Policing in Humphrey House’s Calcutta, 1936-38”, on November 2019.

Farooqi, MehrAfshan. Associate Professor of Urdu and South Asian Literature, University of Virginia, “Ghalib and the Culture of Book Publishing”, on 13 February 2020.

Bakshi, Kaustav. Assistant Professor, Department of English, Jadavpur University, “Reading English Canonical Literature Queerly”, on 18th February 2020

Bakshi, Kaustav. Assistant Professor, Department of English, Jadavpur university “ From the Street to the Academia: Emergence of the ‘Queer’ in Critical Theory” on 20th February 2020.

Mohanty, Sachidananda. Adjunct Professor, School of Liberal Arts and Human Sciences, Auro University,” Research Protocol in English Studies”, on 5 February 2020

Mohanty, Sachidananda. Adjunct Professor, School of Liberal Arts and Human Sciences, Auro University, “The Future of Cosmopolitanisms”, 11th February 2020

Mohanty, Sachidananda. Adjunct Professor, School of Liberal Arts and Human Sciences, Auro University, “Stephen Greenblatt and New Historicism”, 6th February 2020

Talk Hosted by the Centre for Dalit Studies (CDS)

“The Importance of Indian Constitution” on 26th November 2019

“Reassessing Premchand: Textualities and Translations, 18 February 2020.

Panelists: T C Ghai, Former Associate Professor, University of Delhi

Harish Trivedi, Former Professor, Department of English, University of Delhi

Raj Kumar, Professor, Department of English, University of Delhi

Tapan Basu, Associate Professor, Department of English, University of Delhi

Haris Qadeer, Assistant Professor, Department of English, University of Delhi

Talk Hosted by the Centre for Violence, Memory and Trauma (CSVMT)

McKay, Daniel. Associate Professor, Graduate School of global Studies, Doshisha University, Japan, “Natural Horsemanship, the Japanese enemy and Susan Brocker’s Dreams of Warriors”, 22 November 2019.

Seminar/Conference Presentations

National

Aneja, Anil K. Presentation: *Interrelated Dimensions of Diaspora and Disability Studies* in National Seminar on Diaspora & Indian English Literature organized by Tika Ram Girls College, Sonapat, Haryana on 19th November, 2019

Aneja, Anil K. Presentation: *Inclusive Education for Inclusive Workforce* in the National Conference on SDG-4: Aligning Industry and Policy Ecosystem for Quality Education organized by PHD Chamber of Commerce and Industry in collaboration with Aurobindo College (Evening), Delhi on 5th February, 2020. 14 June 2019

Aneja, Anil K. Lecture: *Inclusion, Education and Advocacy* in Workshop for ASHA school teachers (Special Educators) organized by Faculty Development & Research Centre of the Army Welfare Education Society, Delhi on 24th January, 2020

Aneja, Anil K. Lecture: *Inclusion in Higher Education Institution with reference to Disability* organized by Department of English, Chaudhary Ranbir Singh University, Jind, Haryana on 23rd November, 2019

Aneja, Anil K. Panelists: *Inclusive Education Overview* at the National Inclusion Huddle – Fostering Disability Inclusion in Higher Education and Employment organized by Youth4Jobs and University of Mumbai, Mumbai on 20th September, 2019

Aneja, Anil K. Lecture: *Literature and Disability* organized by Department of English, Maitreyi College on 23rd August, 2019, Delhi

Aneja, Anil K. *ICT: Effective Use of Technology for Teaching, Learning and Evaluation* at Faculty Induction Programme organized by Mahatma Hansraj Faculty Development Centre, Hansraj College under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Government of India, Delhi on 26th June, 2019. (By Invitation)

Aneja, Anil K. Lecture: *Changing Dimensions of Rights after the RPD Act* by All India Confederation of the Blind, Delhi on 8th June, 2019

Antony, Swetha. “Culture Industry Reconsidered”: Towards an Understanding of the Impact of Film, Media and Popular Culture on Kerala’s Social Fabric” at the Department of English, Mar Ivanios College, Trivandrum, Kerala on 5th February 2020 (By Invitation)

Antony, Swetha. “Culinary Spaces of Kerala and Cinematic Interventions: A Study of Selected New Generation Malayalam Films”, Inaugural Address of the Webinar Series hosted by the Department of English, Carmel College, Pala, Thrissur, Kerala on 25th September 2019 (By Invitation)

Antony, Swetha. “Towards a Poetics of 'Dispatriation': Contemporaneity and Historicity in Yann Martel’s Life of Pi” at the National Conference on Culture, Language & Literature organised by ELT@I, Department of English, St. Bede’s College and Department of Evening Studies, HP University, Shimla held at St. Bede’s College, Shimla on December 4-5, 2019

Antony, Swetha. “The Acid in Our Minds”: Re-viewing Gendered Hierarchy within the Discourse of Disability in India” at the National Seminar on Gender Equality and Social Inclusion: Challenges and Road Ahead organised by the Department of Humanities and Social Sciences, National Institute of Technology, Kurukshetra on 21 November, 2019

Chattarji, Subarno. English Studies in Indian Higher Education: Contexts, Experiences, and Expectations.' Public lecture at the National Institute of Educational Planning and Administration (NIEPA), New Delhi. 18 September 2019. [By invitation]

Devadawson, Christel R, Contemporary Documentation and Folkloric Design,' Department of English, University of Delhi, 28-29 February 2020

Dubey, Yogesh K. A two day International Conference on Politic, Power and Spectacles in Shakespeare was organised by the Shakespeare Society of India in collaboration with KMC and the Department of English DU on March 7th and 8th, 2019

Devadawson, Christel R 'Micromodernism and the beast fable as travelling text,' Daulat Ram College, September 2019(*Local*)

Devadawson,Christel R. Delivered an Invited Lecture in the 'Distinguished Lecture Series,' Bharati College entitled "English" Romanticism and "Indian "Readers, July 2020. [By Invitation]

Dubey,Yogesh K. "Women in Awadhi Folktales" in a Two-day National Conference on Culture and Aesthetics in Indian Folklore organised by the Department of English, DU, Delhi.February 28-29, 2020

Kumar, Raj. 'Reading Dalit Mythology' in a two day national conference organized by the Department of English, University of Delhi on 28 February 2020

Kumar, Raj. 'Premchand and Dalits' in a book discussion event organized by the Department of English, University of Delhi on 18 February 2020

Kumar, Raj. 'Literature and the Abominable: Lives of Dalits in India' in a special talk organized by Saint Stephen College, University of Delhi on 13 February 2020

Kumar, Raj. 'Dalit Literature and Critical Theories: I and II' in a weeklong workshop organized by Jammu University on 28 November 2019

Kumar, Raj. 'Life and Times of Dr. B.R. Ambedkar' in a one day seminar organized by Rajdhani College, University of Delhi on 7 November 2019

Kumar, Raj. 'Towards an Understanding of Dalit Aesthetics' in a special talk organized by Odia Department, Sambalpur University, Odisha on 1 November 2019

Kumar, Raj. 'Speaking Silence: Understanding Dalit Historiography' in a one day national conference organized by Lakshmi Bai College, University of Delhi on 24 October 2019

Kumar, Raj. 'Literature and National Integration: From Odisha Perspective' in a two day national conference organized by Indira Gandhi National Open University, New Delhi on 26 September 2019.

Kumar, Raj. 'Understanding Marginalities in India' in a one day conference organized by Daulat Ram College, University of Delhi on 17 September 2019

Kumar, Raj. 'Discourse on Margins/Subaltern' in a Critical Theories Workshop organized by Maharshi Dayanand University, Rohtak on 07 September 2019

Kumar, Raj. 'Deconstructing Narrative Identities in Indian English Literature' in a one day seminar organized by Shyam Lal College (Evening), University of Delhi on 23 August 2019.

Kumar, Raj. 'Comparative Study of African-American and Dalit and Minority Literature' in a two day national conference organized by Dyal Singh College, University of Delhi on 20 August 2019

Kumar, Raj. 'The Enlightened Project of Dr. B.R. Ambedkar' in the Third Dr. B.R. Ambedkar Memorial Lecture organized by Dr. B.R. Ambedkar Chair, School of Social Sciences, Indira Gandhi National Open University, New Delhi on 24 April 2019

Kumar, Raj. 'Understanding Marginalities' in a Book Discussion event organized by Jadavpur University, Kolkata on 17 April 2019

Kumar, Raj. 'Relevance of Ambedkarism in Contemporary India' in Ambedkar Memorial Lecture organized by Maharaja Agrasen College, University of Delhi on 16 April 2019

Kumar, Raj. 'A Tribute to Dr. B.R. Ambedkar' in a special lecture organized by P.G. Men's Hostel, University of Delhi on 14 April 2019

Kumar, Raj. 'Dalit Literature: Texts and Contexts' in one day seminar organized by Department of English, Delhi College of Arts and Commerce, University of Delhi on 09 April 2019

Kumar, Raj. 'Revisiting Nationalism and its Changing Contours: The Curious Case of the Returnee Indian' in a national seminar organized by Department of English, Sri Guru Nanak Dev Khalsa College, University of Delhi on 05 April 2019

Kumar, Raj. 'The Female Voice/Gaze in the Indian Cinematic Imagination' in a national seminar organized by Bharati College, University of Delhi on 04 April 2019

Negi, Pooja. "A Vindication of The Rights of Women: The Impact of Hindu Succession Laws on Property Rights", paper presented in a National Seminar on "Gender Equality and Social Inclusion: Challenges and Road Ahead" organised by the Department of Humanities and Social Sciences, held at National Institute of Technology Kurukshetra, Haryana, India, 21 October, 2019

Negi, Pooja. "Takri Script and its Current Status" paper presented at a two-day National Conference on "Culture, Language & Literature" organised by ELT@ -Shimla in collaboration with Department of English, St. Bede's College, Shimla and Department of Evening Studies, H.P. University, held at Department of English, St. Bede's College, Shimla, Himachal Pradesh, India, 4-5 December, 2019

Negi, Pooja. "Shameless without Blankets: Self Realisation as Personal and Collective Empowerment in Maria Campbell's Half breed". paper presented at a National Conference on "Women Empowerment in English Literature" organized by Department of English, I.B, (PG) College, Panipat, Haryana. 18 December, 2019

Negi, Pooja "Folk Narratives and its Role in the Culture of Kinnaur" paper presented at a two-day National Conference on "Culture and Aesthetics in Indian Folklore" organized by Department of English, University of Delhi, Delhi, 28- 29 February, 2020

Qadeer, H. "Where is the ground beneath our feet?": Miyan Poetry and Politics of Othering in Assam, Conference on Literature from Northeast: Texts and Contexts, IIAS, Shimla 5-6 May, 2019

Qadeer, H. Mahatma in Memescape: (Un)Making of Gandhi in Participatory Digital Culture, National Conference on Gandhi in Literary Imagination, Organized by Department of English, Jamia Millia Islamia, New Delhi, 22-23 October 2019

Qadeer, H. (Plenary speaker), Border and Belongings: Poetics and Politics of Miyan Poetry in Assam National Conference on Marginal Literatures, Dyal Singh College, University of Delhi, 20-21 August 2019

Qadeer, H. "Gain and Loss in Translation: A comparative study of Urdu, Hindi, and English version of Premchand's *Bade GharkiBeti*" in *Reassessing Premchand: Translations and Textualities*, Department of English, University of Delhi, 18 Feb 2020

Qadeer, H. *Urban Folk and Nontraditionality in Habib Tanvir's Naya Theatre*, 4 April, 2019, Department of English, Sharda University, Greater Noida

Raja, I. "Life as Text: Narratives of Age in Indian Fiction", paper presented at Lakshmbai College, Delhi University, Orientation Lecture Series, 27 September 2019

Singh, Vinod K. "Philosophical Folklore: A Curious Case of *Bhakti* Poetry" in National Conference on "Culture and Aesthetics in Indian Folklore," Department of English, University of Delhi (*February 2020*)

Vats, Nidhi. Presented a paper on Magahi Folk Traditions in Design and Song National Conference on Culture and Aesthetics in Indian Folklore organized by Department of English, University of Delhi (28-29 February, 2020)

International

Antony, Swetha. 13- 15 November 2019 "Indigenous languages as the epistemological base: A post humanistic study of David Malouf's "An Imaginary Life"", 41st International Conference of Linguistic Society of India (ICOLSI-41) to be held at Indira Gandhi National Tribal University, Amarkantak (MP)

Bhattacharya, Rimli. 29 February 2020. 'Working with archives, languages and images', Lecture & workshop at Centre for Political Studies, Jawaharlal Nehru University, New Delhi.

Bhattacharya, Rimli. 26 February 2020. Public Lecture, 'Beyond the Apparatus: Some early 20th century reconfigurations of work and play', Centre for Political Studies, Jawaharlal Nehru University, New Delhi.

Bhattacharya, Rimli. 14 February 2020. Plenary Lecture on Literature and History, 'The Secret Sharer: Betwixt Land and Sea', English Society, Hans Raj College, Delhi.

Bhattacharya, Rimli. 26 December 2019. 'Studio, stadia and an asram', Seminar Lecture at the Centre for Studies in the Social Sciences, Calcutta (CSSSC), Kolkata.

Bhattacharya, Rimli. 8 December 2019. 'Aurality and movement', Invited lecture at the Fifteenth International Short Film Festival, Bangladesh Shilpakala Academy, Dhaka, Bangladesh.

Bhattacharya, Rimli. 14 June 2019. Paper presented at International Workshop 'Ilha De Moçambique: Thinking Oceanically', at Ilha De Moçambique, Moçambique, Africa.

Bhattacharya, Rimli. 24 April 2019. 'Counter Seductions: The actress in the colonial metropolis', Part of the lecture series entitled 'Frontiers of History', India International Centre, New Delhi.

Bhattacharya, Rimli. 9 April 2019. 'The heart-mind dynamic'. Keynote address, for teachers from various parts of India DPS Society, New Delhi.

Devadawson, Christel R. *Pictorial Satire and the Gandhi Circle*, Department of English, University of Delhi, March 2020.

Kumar, Raj. *Caste, Patriarchy and Dalit Women's Lives* in a two day international conference organized by Shyamal College (Morning), University of Delhi on 9 January 2020.

Kumar, Raj. 'Lakshmi the Rebel' in a panel discussion organized by India International Centre, New Delhi on 12 July 2019.

Kumar, Raj. 'Gandhi-Ambedkar Debate' in a two day international conference organized by the Department of English, University of Delhi on 5 March 2020

Negi, Pooja. "A Journey of Takri Script Across Himachal Pradesh and Its Regional Variations", paper presented in the "41st International Conference of Linguistic Society of India (ICOLSI41)" organized by the Department of Linguistics and Contrastive Study of Tribal languages in association with Central Institute of Indian Languages, Mysore and Linguistic Society of India, Pune, held at Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh, India, 13-15 November, 2019.

Negi, Pooja. "Tribal Women and their Incessant struggles in Various Regions of Himachal Pradesh", paper presented at a two-day International Seminar on Women Empowerment: Taboos, Hurdles, Unconscious Bias & Inclusivity held at Tau Devi Lal Govt. College for Women, Murthal (Sonapat) on 17th -18th January, 2020.

Panja, Shormishtha. "Shakespeare and Cultural Appropriation: Vishal Bhardwaj's *Haider* and Aparna Sen's *Arshinagar*" Shakespeare Association of America Annual Conference, April 2019, Washington DC, USA.

Panja, Shormishtha. "Gandhi in Visual Culture: the Gandhi Temple in Orissa," International Conference "Gandhi in the Private and Public Sphere: Image, Text and Performance" Univ. of Delhi, March 2020.

Panja, Shormishtha (**Keynote Speaker**). "Shakespeare in the Boydell Project and in Bengal," "Discursive Shakespeare" International Conference, East Delta University, Chittagong, Bangladesh, October 2019.

Panja, Shormishtha. "Transnational Technologies in Aparna Sen's *Arshinagar*" "Early Modern Theatre and Spectacle: Transnational Texts, Techniques and Technologies," Theatre Without Borders International Conference, Wesleyan University, USA, June 2019.

Qadeer, H. Presented paper "Mahatma and Memes": Ahimsa and Satyagraha in Participatory Digital Culture, International Conference on Gandhi in the Private and the Public Sphere: Image, Text, Performance, Department of English, University of Delhi 4&5 March 2020.

Qadeer, H. Literary Cartographies: Delhi and its Imagination", 5 June, 2019, Potsdam University, Germany.

Qadeer, H. Hybridity, Identity and Islam: Understanding Ummah in Works of Contemporary Muslim Authors, 19 June, 2019, Potsdam University, Germany.

Singh, Vinod K. Delivered a Lecture on "The Efficacy of Learning Outcome Based Education (LOBE) and Assessment in Higher Education" in the UGC sponsored International Seminar and Workshop on "Innovative Teaching, Learning and Evaluation in English: Harmonious Transition from School to University," Lakshmi Bai College, University of Delhi, in collaboration with Trinity College London (*January 2020*) [*Invitation*]

Singh, Vinod K. Shakespeare Political Wisdom: A Study from an Indian Perspective" in International Conference on "Politics, Power and Spectacle in Shakespeare," Shakespeare Society of India in collaboration with Kirori Man College and the Department of English, University of Delhi (*March 2019*)

Other Inter-Institutional Collaboration

Raja, Ira. Invited participant to a brainstorming session to identify priority areas for India

South Asia chapter of the World Humanities Report (WHR), commissioned by the

International Council of Philosophy and the Human Sciences (CIPSH), in collaboration with UNESCO, and supported by the Andrew W. Mellon Foundation, the Consortium of Humanities Centres and Institutes (CHCI), KREA University, Chennai, 28 Sept 2019.

Students under Exchange Programme

Exchange Programme with Potsdam University

- Bidyut Boruah
- Deepchand
- Manila Kohli
- Samarth Singhal

Extension and Outreach Activities

Gurawa, Anju. Columnist in the National Daily Last Line News

Gurawa, Anju. Academic YouTuber, Success Matrix, https://www.youtube.com/channel/UCZ4Be-pNIU_l31akcJAx2GQ

Raja, Ira. Served as the external expert on the Student Research Committee (SRC) of Susan Haris, doctoral candidate working on "Animal Poetry in the Anthropocene: Multispecies Possibilities in a Skeptical World," at IIT Delhi, 27 August 2019.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 07

M.Phil.: Result awaited

Faculty Strength

<i>Professor</i>	
Number of Sanctioned Posts	07
Present Strength of Permanent Faculty	04
Vacant Positions	03
<i>Associate Professor</i>	
Number of Sanctioned Posts	19
Present Strength of Permanent Faculty	08
Vacant Positions	11
<i>Assistant Professor (After November, 12, 2018)</i>	
Number of Sanctioned Posts	10
Present Strength of Permanent Faculty	07
Vacant Positions	03

Other Significant Information

Other Academic Activities

Dubey, Yogesh Kumar. Participated in refresher course entitled "Global Studies" organised by the HRDC-JNU, New Delhi From March 6, 2019 to March 29, 2019

Administration

All members of the Department are part of the administrative duties as mandated by the various committees of the Department such as Departmental Research Committee, DSA Programme Committee, M.Phil Committee, MA committee, Time Table Committee, Examination Committee, Internal Assessment Committee, Purchase, Planning, Maintenance and Facilities Committee, Library Committee, Handbook/ Annual Report/ Website Committee, Departmental Seminars/ visiting/ Scholarly Committee, Textbook Committee, Finance & Purchase committee, ADHOC Empanelment committee and Anti- Ragging Committee and the three centres namely Centre for Dalit Studies, Centre for Studies in Violence, Memory and Trauma and Centre for Academic Translation and Archiving.

Kumar, Raj. Governing Body, International Students' Hostel, University of Delhi, Delhi.

Kumar, Raj. Governing Body, Rajiv Gandhi Women's Hostel, University of Delhi, Delhi.

Chattarji, S. Deputy Coordinator, Department of English, University of Delhi, University Grants Commission-Department of Special Assistance III Programme, 2015-2020.

Kumar, Raj. Head of the Department of English, University of Delhi, Delhi.

(November 2018 onwards)

Singh, Vinod Kumar. Teacher in Charge, PG Centre NCWEB, University of Delhi.

DEPARTMENT OF GERMANIC AND ROMANCE STUDIES

Major activities and achievements

The department organized the Annual International Conference on the theme, "Unravelling lives: literary encounters and life-writing", Department of Germanic and Romance Studies, University of Delhi, from 5 – 7 March 2020.

Honours/Distinctions (02)

Kusum Aggarwal was awarded Research Fellowship of the Shastri Indo-Canadian Institute

Tanya Roy was a Visiting Fellow at the University of Pisa, Italy to teach Italian Linguistics for their BA course from 1.10.2019 to 30.11.2019

Publications (01)

Sawhney, M. (2019). Octavio Paz y la India" in Luvina. *Literary Journal of the University of Guadalajara*, Mexico. Retrieved from:

https://luvina.com.mx/foros/index.php?option=com_content&task=view&id=3856&Itemid=8

Journals

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board: 01

Minni Sawhney serving at:

- Editorial Board, IAFOR, International Journal of Arts and Humanities
- Editorial Board, Mitologías, Autonomous University of Barcelona
- Editorial Board, Letras Hispanas, University of Texas

Seminars organized (01)

Annual International Seminar organized on the theme, ““Unravelling lives: literary encounters and life-writing”, 5 – 7 March 2020 (Programme attached).

Conferences Organized (01)

International Conference «Blue and Green Humanities in Hispanic Literature» «Ecología y medioambiente en las literaturas hispánicas» organized by Department of GRS (Delhi University), GRISO (University of Navarra) and Centre for Spanish, Portuguese, Italian and Latin American Studies (JNU) at Instituto Cervantes, New Delhi, from 25-26 April 2019.

Seminar/Conference presentations (03)

Minni Sawhney presented the paper titled “Renegades in the drama of Cervantes” in the Congress of the International Association of Hispanists, Hebrew University of Jerusalem, held from 7-12 July 2019.

Ena Panda presented the paper titled “Identity and Alienation in the Short Stories written by Contemporary Francophone Women Writers of Québec”, at the International Conference on “Recovering women’s identities between Centre and Periphery (16th-20th Centuries)”, organised by Institute of Modern Languages Research, School of Advanced Study, University of London and University of Cambridge, from 5th -6th March 2020

Eva Panda presented the paper titled “The Poetics of Self-estrangement in the Works of Contemporary Francophone Women Short Story Writers of Québec”, at the International Conference on Gender Studies: “Gender Narratives”, organised by London Centre for Interdisciplinary Research, on 29th February, 2020.

National/International MoUs signed

University of Montpellier-III (French)

French-speaking Universities Agency (AUF) (French)

University of Wuppertal, Germany (German)

Freie University, Berlin, Germany (German)

Potsdam University, Germany (German)

Vienna University, Austria (German)

University of Santiago de Compostela, Spain (Spanish)

University of Navarra, Pamplona, Spain (Spanish)

University of Turin, Turin, Italy (Italian)

Extension and Outreach Activities (23)

Minni Sawhney delivered a lecture “Hip Hop as an Instrument of Social Change: Audry Funk and Rap Music” at Jindal Global University on 29th of August, 2019.

Farida Irani was a Plenary Speaker for "Foreign language teaching: The Art and Science of developing a Person" at The Art(s) of/in Foreign Language teaching " International Conference and Workshop, organised by O.P. Jindal Global University, Sonapat, Haryana.

Lecture on "The Craft of Interpretation" by Malini Gupta, freelance simultaneous and consecutive interpreter (English - French - Hindi) for the Ministry of External Affairs and other organizations on 5 April 2019 at 2:00 pm

Lecture on "Society and Culture in Al Andalus" by Prof. Vicente Ballesteros, University of Granada on 29 April 2019 at 10:30 am.

Long Night Literature organized on 26 September 2019.

Lecture by Portuguese writer Clara Macedo Cabral on 25th September 2019 at 10.30 am.

Portuguese Language Teaching Workshop was held on Didactics, with Dr. Cláudia Martins (Portugal) from 26th to 28th September 2019.

Film Screening in French language:

«Incendies», 17 September 2019

« Amour», 24 September 2019

Film Screening and lecture series titled, Writing the City through Cinema by Dr Harald Pittel, University of Potsdam from 3 to 6 September 2019, on: a. Berlin in the 1920s, b. The Divided City, c. Turkish Berlin, d. City of (Lost Dreams)

Mr. Olivier Mongin, French essayist, writer and philosopher delivered a lecture on "Paul Ricœur: the question of identity or that of migration presented by Paul Ricœur (while discussing globalization and the resurgence of violence in the context of globalization which is not only an economic phenomenon)" on 23 October 2019 at 11 am.

Talk organised by Spanish Section on Thursday, 17 October 2019 from 11:00 am to 1:00 pm.

Lecture on "Littérature mauriciennes et explorations contemporaines" by Kumari Issur University of Mauritius on 3rd October 2019 at 12:00 noon

German Teachers workshop conducted on 3rd and 4th October 2019 by Prof. Ursula Kocher.

German Day celebrated on 8th November 2019.

Lecture on "My Sister Antigone by Grete Weil: A case of Life Writing" by Prof. (Dr.) Elke Liebs, University of Potsdam on 11 November 2019.

Talk on "Poetry and creativity" by Cosme Alvarez (Mexican), Nadia Lopez Garcia (Mexican), Marife Santiago Bolanos (Spanish), Miren Agur Meabe (Spanish), Jose Maria Alvarez Caccamo (Spanish) writers/poets on 13 November 2019 at 11:00 am.

Lecture series delivered by Prof. C.P. Kaushik and Prof. Anubha Kaushik from Guru Gobind Singh Indraprastha University on 21 November 2019 from 10:00 a.m. to 12:00 noon.

Workshop by Prof. Elke Liebs, University of Potsdam on 27th January 2020 from 11:30 to 3:30 pm.

Talks by Elisa Delibes (Daughter of the writer Miguel Delibes), Fernando Zamacola (Director of Miguel Delibes Foundation) José Ramón González (Director of Cultural Policy of Castila and Leon and Literature Professor at University of Valladolid) on 21 January 2020.

Three days Lecture series by Prof. Claire Ducournau, University Paul Valéry Montpellier-3, held on 28th, 30th and 31st January 2020.

International Workshop on Italian-Hindi Translation, held on 26th February 2020.

Italian Cultural Festival “Piazza Italia, 20”, held on 27th February 2020.

Talk entitled Fictions of Memory - Memory in literature. Case study: Brazilian literature after 1945(The Diary of the Fall by Michel Laub) by Joanna Moszczynska from the Institute for Latin American Studies, Freie Universität Berlin, 3 March 2020.

Lecture entitled Comparative Indian and German Cinema by Dr. Majja Figge from the Akademie der Kuenste, Berlin, 4 March 2020.

Number of M.Phil./PhD Degree awarded:

Ph.D.: 02-German Studies, 02-Hispanic Studies, 01-French Studies

M.Phil.: 01-German, 02-French, 02-Italian

Faculty strength:

Permanent: 12

Ad-hoc: 11

Guest: 05

DEPARTMENT OF HINDI

Major activities and achievements

The Department of Hindi of the University of Delhi is one of the leading departments of the country. It creates, innovates, sustains and promotes high standards of academic excellence. The department has developed a very dynamic curriculum that can reflect and upgrade the needs of changing times, rapid growth in knowledge and requirements. High standard of research is maintained in and by the department as per UGC norms.

Publications (17)

Kumar, S. (2019). ‘Is Itane Bare Shahar Mein Ek Kavi Ka Hona’; Delhi: Vishwa Hindi Patrika. Pp. 181-185

Kumar, S. (2019). ‘Kedarnath Singh Ki Kavya Chetna Ka Swaroop’; Delhi: Sakhee. Pp. 374-384

Negi, S. L. (September-November 2019); ‘*Akshra Treymasik Patrika*’; 13, 55-63. ISSN No. 23484241

Negi, S. L. (December, 2019); ‘*Jankriti International Magazine*’, 05. ISSN No. 24542725.

Negi, S. L. (February, 2020); ‘*Kaksad*’; 5, 25-26. ISSN No. 24562211.

Negi, S. L. (February, 2020); ‘*Adi Dharam Bon Aur Adivasi Sanskriti*’; 1, 41-45. ISSN No. 23484241.

Tiwari, V. (2019). ‘Rahi Masoom Raza: Hamare Secular Vidhan Ki Ek Jeeti Jaagti Alamat’. *Aalochna*, 60, 83-93. April-June, 2019.

Tiwari, V. (2019). ‘Muslim Navjagran Aur Akbar Allahabadi Ka ‘Gandhinama’. *Tadbhav*; 39,253-25. May, 2019.

Tiwari, V. (2019). ‘Rahim: Lok ki Naitikata’. *Vagartha*, 286, 100-104. May, 2019.

Tiwari, V. (2019). 'Pyaas Ka Jayaka Pani Ki Tarah Hota Hai'; *Pustak Varta*, 82, 17-19. May-December, 2019.

Tiwari, V. (2019). 'Tatsam Ke pados Mein Tadbhav Ka Dukh'. *Sakhee*, 29-30, 4436-446. June, 2019.

Tiwari, V. (2019). 'Aalochak Rajendra Kumar: Kushal Ki Apeksha Imandar'. *Prayag Path*, 7, 146-154. October, 2019.

Tiwari, V. (2020). 'Hum Kahan Ke Dana The Kis Hunar Mein Yakata The'. *Chaupal*, 12, 340-344. Jan-June, 2020.

Tiwari, V. (2020). 'Gandhi Aur Samkaleen Hindi Upanyas'; *Smkaleen Bharteeya Sahitya*, 208, 9-17. March-April, 2020.

Tiwari, V. (2020); '*Alochana Ki Pakshdharta*', Panchkula. Haryana: Aadhar Prakashan. Total Pages- 280

Tiwari, V. (2020); '*Rashtravad Aur Gora*', Delhi: Ananya Prakashan. Total Pages- 160

Tiwari, V. (2020); '*Pakshdhar: 27, 28*'. Shahdara, Delhi: B.K. Offset. Page 336

Conference Organized (01)

Negi, S. L. (2019) Organised Lecture Cum-discussion on Dr. P.N. Singh Literature 'Dehri Ka Diya' on 6.11.2019; Self-Financed.

Seminar/Conference Presentations (10)

Negi, S. L. (2019). Hindi Kavita Mein Abhivayakt Gandhivadi Mulya; *Bhartiya Sahitya Parampra Aur Gandhi Ka Yogdan*; Organised by Indraprastha Sahitya Bharti Evam Gandhi Smriti, Delhi; Gandhi Smriti, Delhi; Gandhi Smriti Foundation, on 25 August, 2019

Negi, S. L. (2019). Media Rajneeti Aur Adivasi Kahani; *Ikkisvi Sadi Ka Hindi Katha Sahitya Chintan Ki Vividh Dishayein*; Organised by UGC, on 05-06 September, 2019

Negi, S. L. (2019). Samkaleen Parivesh Aur Kabir Ki Prasangikta; *Kabir Aur Bhakti Andolan*; Organised by ARSD College, University of Delhi; UGC, on 19-20 September, 2019

Negi, S. L. (2019). Ashwini Pankaj ki Kahaniyon Mein Aadivasi Samaj; *Janjati Sahitya Mahotsav*; Organised by Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal; Sanskriti Mantralaya, Bharat Sarkar; 12 November, 2019

Negi, S. L. (2019). Adivasi Striyon Ke Samajik-Sanskritik Chunautiyan (Kinnaur Ke Sandarbha Mein); *Bahujan Mahila Sammelan (Sandarbh : Adivasi Mahila)*; Organised by Bahujan Sahitya Sangh, Delhi; on 27-28 September, 2019

Negi, S. L. (2019). Apne Apne Premchand; *Dr. P.N. Singh Ke Sahitya*; Organised by University of Delhi; Jamia University; 06 November, 2019

Negi, S. L. (2019). Adivasi Bhashaon Ka Mahotsav; *29th Rangpa Sanskritik Mahotsav*; Organised by Seemant Welfare Association, Delhi; Seemant Welfare Association, Delhi; on 28 December, 2019

Negi, S. L. (2019). Kinnauri Lok Geeton Mein Stree Ki Samajik Bhumika; *Articulating Adivasi and Tribal Feminism in India*; Organised by Centre for North-East Studies and Policy Research Jamia Millia Islamia University, Delhi in collaboration with IGRMS, Bhopal; Government of Madhya Pradesh; on 15-17 November, 2019

Negi, S. L. (2020). Tribal Philosophy; Organised by Dr. Ram Dayal Munda Tribal Welfare Research Institute, Ranchi, Jharkhand; Government of Jharkhand; on 16-19 January, 2020

Negi, S. L. (2020). 2nd Dalit Literature Festival; Organised by Kirorimal College, Delhi University; Ambedkarvadi Lekhak Sangh; on 16-17 February, 2020

Number of M.Phil./Ph.D. Degrees Awarded:

Ph.D.: 32

M.Phil.: 24

Faculty Strength:

Permanent: 20

DEPARTMENT OF LINGUISTICS

Major Activities and Achievements

The Department was founded in the year 1963 with the introduction of a Diploma Course. It has now grown into a full-fledged Department, which offers M.A., M.Phil. and Ph.D., as well as two Post M.A. Diplomas. The department received SAP status in 1988 and since 2010 it has been a center for Advanced Studies (CAS).

Its current Faculty includes the following (2019-20): Prof. Shobha Satyanath, Associate Professor, Ph.D. (University of Pennsylvania, USA); Dr. Tanmoy Bhattacharya, Associate Professor, Ph.D. (University College of London, UK); Dr. Mamta, Assistant Professor, Ph.D. (Jawaharlal Nehru University, New Delhi). Resigned during 2019-2020: Dr. Gail Coelho, Associate Professor, Ph.D. (University of Texas, USA) Delhi) [Until October 2020]

The department faculty has been active in capacity building. Individually they have set up one annual student conference, working papers, one annual Summer school, one International Journal and one International conference series. Faculty members have active collaborations with their counterparts in other Universities. Department routinely organizes talks by inviting eminent scholars and visiting faculty. The Department has a Linguistics Lab, utilized for teaching & research on Phonetics and Sociolinguistics. It has a computer Lab for research students. It also houses a Departmental Library, the space for which is currently shared with the East Asia Studies. The Department library houses many rare books, books donated by its former faculty and other eminent scholars. It has been constantly upgrading its teaching and research activities to include newer areas of research and to match the latest trends in the discipline.

This is a unique Department in the country as it offers rigorous training in various key areas of Linguistics. The strongest areas of the department at present includes Sociolinguistics (Language variation and change, Language contact, multilingualism, dialect geography, Socio-Phonetics), Socio-historical Linguistic; and Syntactic theory and syntactic variation. In view of the superannuation of many of its faculty members, the Department is looking forward to recruiting new faculty members in various areas. The department provides a balance between theoretically and empirically driven research. The Department has recently restructured and revised its syllabus (part of the University led initiative) for its various programs: Undergraduate (where Linguistics is taught as a discipline as a part of the B.A. program); Postgraduate (M.A. and M.Phil.). The revision has been aimed at strengthening training in core areas and diversifying elective areas.

Honours/Distinctions (03)

Shobha Satyanath: The present Vice President, Linguistic Society of India

Shobha Satyanath: Member of the Scientific committee for Sociolinguistic Symposium [SS23] (University of Hong Kong)

Shobha Satyanath: Member of the Planning committee for New Ways of Analysing Variation in Asia-Pacific [NWAV-AP] (International Conference Series)

Publications

Published (05)

Bhattacharya, T. (2020). Service and Knowledge: The Emergence of Disability Studies Extension. In N. Mehrotra (ed.), *Disability Studies in India* (pp. 111-132). Singapore, Springer. [https://doi.org/10.1007/978-981-15-2616-9_7; Print ISBN978-981-15-2615-2; Online ISBN978-981-15-2616-9].

Satyanath, S. *Asia Pacific Language Variation. Volume 5.1 John Benjamins*

Satyanath, S. *Asia Pacific Language Variation. Volume 5.2 John Benjamins*

Satyanath, S. *Asia Pacific Language Variation. Volume 6.1 John Benjamins*

Satyanath, S. *Asia Pacific Language Variation. Volume 6.2 John Benjamins*

Forthcoming (06)

Satyanath, S. Genealogies of Sociolinguistics in India'. *Journal of Sociolinguistics* (Wiley).

Satyanath, S. 'Language contact and Diffusion: Classifiers in Assamese and its contact varieties'. *Journal of Language Contact* (Brill) for publication (Research fieldwork was supported by R&D grant, University of Delhi and UGC CAS II Project).

Satyanath, S. *Sociolinguistics of multicultural communities: What can be learnt?* In Katie Drager, Malcah Yaeger-Dror and Chris Cieri (eds., 2021.) Dimensions of Linguistic Variation. OUP.

Satyanath, S. 'Perspectives on Social life of language' in Panda, Mishra, & Kóczy, (eds., 2021), From Principles to Praxis: How linguistic theories interact with language learning and pedagogy. Springer.

Satyanath, S. 'Looking beyond the western horizons: Pedagogies of multilingualism'. *Journal of Aligarh Muslim University*.

Satyanath, S. (Forth) Review of Agnihotri, Verma, and Puri (eds.) Language and identity: Selected Papers of Robert B. Le Page. *Journal of Pidgin and Creole languages and Linguistics*. Orient Blackswan [Forthcoming]

Journals

Teachers serving as Editor(s)/Member(s) of Editorial Board (02)

Bhattacharya, T. Associate Editor, Linguistic Variation (John Benjamins) (Since 2019).

Bhattacharya, T. Chief Editor, LISSIM Working Papers.

Bhattacharya, T. Member, Editorial Board, Syntax (published by Wiley-Blackwell) (since 2010).

Bhattacharya, T. Member, Editorial Board, Language and Language Teaching

(APU/ VBERC) (since 2010).

Bhattacharya, T. Founder Editor, Indian Journal of Critical Disability Studies, CDSI, Delhi.

Satyanath, S. Chief Editor, Asia-Pacific Language Variation. John Benjamins (2015- Present) Peer reviewed and indexed in: CNKI; Glottolog; IBR/IBZ. E-ISSN: 2215-1362 <https://benjamins.com/catalog/aplv>

Satyanath, S. Member, Editorial Board (January 2018-2021), Journal of Sociolinguistics, John Wiley & Sons Ltd. Impact factor 1.2 (2016); ISI Journal Citation Reports @ Ranking:2016: 48/182. Online ISSN: 1467-9841

Satyanath, S. Member, Editorial Board, John Benjamins (Creole Library Series). 2006-present.

International Research Collaborations (01)

Satyanath, S. (2018-2020). Research collaboration and cooperation with Kanda University of International Studies, Japan. The project seeks to develop modules in eight different varieties of English including Indian English [2015-2016; 2018-2022]. Developed and filmed modules on Indian English.

Research Projects (02)

Bhattacharya, T. Centre for Advanced Studies (UGC CAS II)

Satyanath, S. Centre for Advanced Studies (UGC CAS II): Faculty Project on Language Variation)

Seminars organized

Talks (invited) organized in the department (12)

Talk delivered by Prof. Sreenivasa Murthy, Former Professor of Sanskrit and Principle, MES College, Bangalore, on “Meaning in Indian Grammatical Traditions” on April 25, 2019

Talk delivered by IIT, Delhi, on “Computational Linguistics: A series of Talks for M. Phil students” on May 16-17, 2019

Talk delivered by Prof. John Peterson, Christian-Albrechts-Universität zu Kiel, on “Jharkhand as a Sprachbund? Munda influence on India-Aryan in Eastern Central India” on May 1, 2019

Talk delivered by Hemanga Dutta, EFLU, Hyderabad, on “Phonology (1)” on November 2, 2019

Talk delivered by Hemanga Dutta, EFLU, Hyderabad, on “Phonology (2)” on November 4, 2019

Talk delivered by Meiraba Takhellambam, Sikkim University, on “The Prosodic Phonology of Meetei in the Context of Tibeto Burman Phonology” on November 29, 2019

Talk delivered by Jaspal Naveel Singh, The University of Hong Kong, on “Loudness registers: Normalizing cosmopolitan identities in a narrative of ethnic othering” on October 18, 2019

Workshop conducted by Professor Shobhana Chelliah and colleagues, University of North Texas, on “Digital Archiving” on February 12, 2020

Talk delivered by Antoon Cox, University of KU Leuven Belgium, on “Multilingual Consultations in Urgent Medical Care” on January 24, 2020

Intensive workshop conducted by Gail Coelho, University of Delhi, on “Field Methods” on September 23-25, 2019

Talk delivered by Hemanga Dutta, EFLU, Hyderabad, on “Phonology” on November 2, 2019

Series of talks delivered by Professor Ashwini Vaidya, University of Colorado, U.S.A and IIT, Delhi, on “Computational Linguistics and Cognitive Science” on May 17-30, 2020

Pre-Ph.D Seminar Talks by Doctoral students (01)

Biswas, S. (2020). Tectogrammatical Annotation of Bangla Force Categories (Online) 15 May, 2020).

Talks/Conference Presentations (National / International)

International (07)

Bhattacharya, T. “A Syntactic Account of Agreement Variation in Hindi Tanmoy, Tanmoy Bhattacharya. Participles” Invited talk at seminar of the Acquisition, Variation, Attrition group of the Norwegian University of Science & Technology (NTNU), Trondheim on April 10, 2019 (<http://site.uit.no/acqva/acqva-half-day-seminar-in-trondheim-10-april/>)

Bhattacharya, T. Delivered a talk “Optionality and Variability in some Hindi participles” at 12th Asian GLOW held at Dongguk University, Seoul, South Korea on August 6-9, 2019.

Bhattacharya, T. Invited discussant at 35th SALA at INALCO, Paris of paper presentation by Rajesh Bhat, on Oct 29-31, 2019.

Bhattacharya, T. “Bangla, Hindi, and Meeiteilon Polar and Alternative Questions”, SALA 35, INALCO, Paris, on Oct 29-31, 2019.

Bhattacharya, T. “Comparing argument indexation and person hierarchy in Kuki- Chin and some Kiranti languages” (jointly with Jyoti Sharma), Linguistics Society of Nepal (LSN) 40 conference, Tribhuvan University, Kathmandu, Nov. 26-27, 2019.

Bhattacharya, T. “Appearance, Disappearance, and Reappearance of AGREEMENT: How a theoretical account can be useful for us”, Special post-LSN- conference talk, Tribhuvan University, Kathmandu, on Nov 28, 2019.

Satyanath, S. Urbanization, mobility and language variation in India. Department of Chinese Language and Literature, University of Macau (July 30, 2019) [Invited Talk].

Forthcoming: ‘Contact and diffusion: Classifiers in two contact varieties of Assamese’. NWAV, National University of Singapore (February, 19-22, 2021)

Forthcoming: ‘Expanding Sociolinguistics: What have we achieved thus far?’ Unsettling Language, Sociolinguistics Symposium, 23. University of Hong Kong (7-10 June, 2021) [Special Panel on decolonizing, decentering Sociolinguistics].

National (09)

Bhattacharya, T. (2019). Series of lectures delivered in a 2-day invited workshop on “Minimalism and Language Evolution” at IIT, Bombay on May 28-29, 2019.

Bhattacharya, T. (2019). “State of Research in Theoretical Linguistics” delivered as invited Panelist on the “Theoretical Linguistics” Panel on the occasion of the 50th Golden Jubilee Celebration of the Central Institute of Indian Languages, Ministry of HRD, Mysore. July 16-17, 2019.

Bhattacharya, T. (2019). Panelist at A panel on Linguistics, Mathematics, and Philosophy on “The Not So Obvious”; as the 151st episode of the web talk series SynTalk on September 28, 2019. [Link: <http://bit.ly/2op9n2d>]

Bhattacharya, T. (2019). “Bangla, Hindi, and Mee/iteilon Polar and Alternative Questions”, paper presented at the 4th Pot Syntax/ Semantics conference, JNU, New Delhi on Oct. 18- 19, 2019.

Bhattacharya, T. (2019). Introducing Workshop on Grammatical Variation (TiBAS2019), Sikkim University, Gangtok, on Nov. 10-11, 2019.

Bhattacharya, T. (2019). “Was There Someone Else? The story of migratory waves into the Northeast of India and the conundrum of person agreement” at Tibeto-Burman Agree(ment) System Workshop (TiBAS2019), Sikkim University, Gangtok, Nov. 10-11, 2019.

Bhattacharya, T. (2019). “Deriving Polar Questions in Assamese” Tibeto-Burman Agree(ment) System Workshop (TiBAS2019), Sikkim University, Gangtok, (jointly with Eshani Baishya), Nov. 10-11, 2019.

Bhattacharya, T. (2019). “Clitic-placement and Agree in Kuki-Chin and Kiranti Languages” (jointly with Jyoti Sharma, Tibeto-Burman Agree(ment) System Workshop (TiBAS2019), Sikkim University, Gangtok, Nov. 10-11, 2019.

Satyanath, S. (2019). Perspectives on Social life of language. Invited Talk. National Symposium on ‘A Dialogue between Generative and Cultural-Cognitive Approach to Language Acquisition and Language Pedagogy’. Zakir Husain Centre for Educational Studies School of Social Sciences, Jawaharlal Nehru University, Delhi. March 29, 2019.

Note: Many conferences got postponed due to covid and had to be rescheduled.

Other Inter-Institutional Collaboration

Hankuk University of Foreign Studies, South Korea (Continuing). This is part of ARG (Brics+7) program under which Students from the above University come 2-3 times a year for ‘Hindi Teaching and Indian Studies program’.

Students under Exchange Programme

Some of the students have been awarded Fulbright fellowships (FLTA)

Grants to attend short term Linguistic Institutes abroad.

Placement Details

Number of students placed: 06

Number of Companies visited for campus recruitment: 1

Extension and Outreach Activities

Part of this includes reaching out to communities/people wherever they need Linguists.

Since 2012, Shobha Satyanath has been associated with the Zomi community in Manipur (also located in the bordering Myanmar) in helping and guiding them with various issues relating to their language,

documentation of its regional varieties, nature of linguistic and cultural relationship among various groups and their speech varieties, developing literature in their language. I have helped the Zomi language and Literature Society to have a balanced (co-existing and non- conflicting) view of regional and national identities. The first phase of their documentation is over and published by the Zomi Language and Literature Society (ZOLLS). Now she is helping them with the next phase of their work. The community is very keen on this work as this creates awareness towards language practices and vanishing traditions (as the mobility is high among the younger generations).

As part of Sociolinguistics, students undertake fieldwork aimed at studying the local neighbourhoods. This brings the local and the University communities together.

BRICs and 7+1 (Hindi Language and Indian Studies Programme). This is a resource generation and good will generation program between two institutions and two nations as well as promotion of Hindi and Indian culture.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. - 03

M.Phil. - 02

Faculty Strength

Professor: Sanctioned- 02, Vacant- 02

Associate Professor: Sanctioned- 07, Filled- 03, Vacant- 04

Assistant Professor: Sanctioned- 05*, Filled- 01, Vacant- 04

Ad-hoc Assistant Professors: Sanctioned- 04, Filled- 03

Other Significant Information

Shobha Satyanath has, over the years, built and continuing to build sociolinguistic Speech corpora of natural language usage: (Some of which was created with the R&D grants provided by the University of Delhi). The speech corpora have a huge value and potential for research and technology development in various industries. Such corpora of casual natural speech do not exist in India. As a consequence, researchers rely on English corpora (widely available outside India), which slows down the process of development of Indigenous technology relevant to India, or have to buy from outside Corpora on Indian languages by paying large sum of public funds.

Speech corpora (conversational data)

- (i) Guyanese English spoken by a community of Indian origin
- (ii) Assamese (Geographic varieties: Ongoing) [R&D Grant, DU]
- (iii) Nefamese [R&D Grant, DU]
- (iv) Nagamese (Ongoing) [R&D Grant, DU]
- (v) Bengali (Geographic varieties: Calcutta, Delhi, Chittagong; and other varieties)
- (vi) Hindi- English
- (vii) Hindi
- (viii) Indian English
- (ix) Bishnupriya (Geographic Varieties)
- (x) Kok Borok

- (xi) Sadri
(xii) Earlier Assamese: Historical texts (Under preparation)

MODERN INDIAN LANGUAGES AND LITERARY STUDIES

Major Activities and Achievements

The Department of Modern Indian Languages and Literary Studies, University of Delhi, since its inception in 1961, has acted as a centre for language and literature studies in India. The department has succeeded in popularizing a model of one literature in India, i.e., 'Indian literature,' in a multi-lingual and multi-cultural set up of the country. For past two decades the department has expanded its areas of investigation to the unexplored areas, such as folklore, tribal lore and cultural studies besides its 2nd Language teaching programmes. Thus, exploring new areas of investigation in the fields of language, literature, and culture of India and creating space for multidisciplinary and inter-disciplinary research.

Publications (9)

Books (3)

Venkata Ramaiah Gampa. (2019). *Dakshina Bharathi Foot prints in south Indian Literature* (An Anthology of Literary and Critical Essays) . Delhi: V R Publication. ISBN: 978-93-5382-753-3.

_____. (Ed.) (2019). *Telugu writings in English: New perspectives*. Delhi: A G Publication. ISBN: 978-93-5382-752-6.

_____. (Joint Editor) (2019). *Breaking the Silence on Muddupalani! Relocating Radhika Santwanam in Contemporary Studies*. Delhi: A G Publication. ISBN: 978-93-5382-673-4.

Articles (6)

Pattanaik Prakash C. (2019). "Lepcha the Language of Dreams: An Analytical Study in the Present Socio-cultural Context," in Lyangsang Tamsang, ed. *Language, Literature and Culture of the Lepchas*, Kalimpong: Lepcha Development Board and ILTA, pp. 1-18

Rajagopal, Dr. Govindaswamy. (2019). "Ethical Discourse in Sangam Classics and Tirukkura!", in the Souvenir of the Third International Conference on Thirukkura! titled *Thirukkura! For World Peace and Harmony*, Dr. G. John Samuel (Chief Ed.), New Delhi: Institute of Asian Studies (Chemmancherry, Chennai), held on 23–24 September 2019, pp. 61-90.

Venkata Ramaiah, Gampa. Kama Vs Dharma in the Path of Ananda: Allasani Peddana's Manucharitramu in www.languageinindia.com, Journal (August 2019). ISSN No. 1930-2940.

_____. Radhika Santvanamu-Auchityanauchityamu in *Breaking the Silence on Muddupalani! Relocating Radhika Santwanam in Contemporary Studies* Edited by Venkata Ramaiah Gampa and Ankita Gupta. Delhi: AG Publication, 2019. ISBN : 978-93-5382-673-4.

_____. Pravarakhya and Varudhani's Views on Life in Allasani Peddana's Manucharitramu in *Telugu Writings in English: New Perspectives* Edited by Venkata Ramaiah Gampa. Delhi: AG Publication, 2019. ISBN: 978-93-5382-752-6.

_____. Ravishastri's Illu (The House): A Sociological Perspective in *Telugu Writings in English: New Perspectives* Edited by Venkata Ramaiah Gampa. Delhi: AG Publication, 2019. ISBN: 978-93-5382-752-6.

*The department did not provide the name of the authors

Journals

Number of Department Teachers serving as editors / members of editorial boards-01

Rajagopal, Dr. G. (2019), serving as a member of Editorial Board of the monthly Tamil magazine *Ulagattamil*, published by Ulaga Tamil Sangam, (Madurai), Government of Tamil Nadu, Chennai.

Rajagopal, Dr. G. (2019), serving as a member of Editorial Board of the Quarterly Tamil research journal *Classical Tamizh*, published by Raja Publications, Thiruchirappalli, Tamil Nadu.

Seminars Organized (4)

The Department organized a Two-day National Workshop on “Multilingual Translation of Kazi Nazrul Islam’s Poetry,” on 05th & 06th March, 2020 in collaboration with Nazrul Centre for Social and Cultural Studies, Kazi Nasrul University, Asansol, West Bengal.

The Department organized a Two-day National Seminar on “Text and Textuality” under UGC-DRS Phase III programme in the department on 2nd & 3rd March, 2020.

The Department organized Two Days National Seminar on “Displacement and Diaspora: Indian Literary Response” on 5th & 6th February, 2020.

The department organized a National Seminar on National Seminar on “Displacement and Diaspora: Indian Literary Response” on 5th & 6th February 2020.

Seminar/Conference Presentations (16)

Professor P. C. Pattanaik (7)

Pattanaik Prakash C. (2020) delivered a Special lecture on “Transmission of Mahabharata Katha among the Indian Folk” in the Department of English, Bodoland University, Kokrajhar, Assam, on 30th January 2020.

Pattanaik Prakash C. (2020) delivered a Special lecture on “Language, Culture, and Literature of India: In Pursuit of ‘oneness,’” in the Department of English, Bongaingaon College, Assam, on 29th January 2020.

Pattanaik Prakash C. (2020) delivered the Keynote Address in the National Seminar on *Indian Culture and Scientific Temperament*, organized by the Central Institute of Technology, Kokrajhar, Assam, on 28th January 2020.

Pattanaik Prakash C. (2019) delivered the Keynote address in the National Seminar on *Indian Literature and National Integration*, organized by IGNOU, New Delhi. (26-27 Sept. 2019)

Pattanaik Prakash C. (2019) “Linguistic Situation of India: the Issue of Commonalities,” delivered in the UGC Refresher Course on *Indian Language and Literature*, organized by Jamia Milia Islamia University on 25th September 2019.

Pattanaik Prakash C. presented a paper titled, “LEPCHA, the Language of Dreams: An Analytical Study in the Present Socio-cultural Context,” in the National Seminar on *Language, Literature and Culture of the Lepchas*, organized by the MLLDB, Kalimpong held during 18-19 July 2019:

Pattanaik Prakash C, delivered the Keynote address on and Chaired a session in the National seminar on *Interdisciplinarity in Higher Education*, organized by the Central University of Haryana during April 2019.

Dr. G. Rajagopal (7)

Rajagopal, G. (2020), presented a poetry titled “Kalagakkaran” (in Tamil) of the Bengali poem titled “Bidrohi” by Kazi Nazrul Islam, in the National Workshop on *Multilingual Translation of Kazi Nazrul Islam’s Poetry* during 05th & 06th March, 2020 organized by the department of Modern Indian Languages and Literary Studies, University of Delhi, Delhi-110 007, in collaboration with Nazrul Centre for Social and Cultural Studies, Kazi Nasrul University, Asansol, West Bengal.

Rajagopal, G. (2020), delivered a lecture entitled “Importance of Mother Tongue in Delhi’s Multilingual and Multicultural Context”, in the *Matrubhasa Diwas – The International Mother Language Day Seminar*, organized by the Gandhi Bhawan, University of Delhi, Delhi, 22nd February 2020.

Rajagopal, G. (2020), delivered a lecture entitled “Role of Mother Tongue in preserving India’s Cultural Diversity & Heritage”, in the *International Mother Language Day 2020*, organized by Indira Gandhi Centre for the Arts (IGNCA), New Delhi, in association with UNESCO and Bhasakriti, New Delhi, 21st February 2020.

Rajagopal, G. (2020), presented a paper titled “Jeevakumaran’s *Nirvana Manidargal*: Displacement of Sri Lankan Tamils”, in the Two Days National Seminar on *Displacement and Diaspora: Indian Literary Response*, organized by the department of Modern Indian Languages and Literary Studies, University of Delhi, Delhi-110 007, on 05th & 06th February 2020.

Rajagopal, G. (2019), presented a paper titled “*Parattai*: The ‘Other Woman’ in the Sangam *Tinai* Poetry”, in the 10th International Conference – Seminar on Tamil Studies”, organized by Community Organizations in North America, the Federation of Tamil Sangams of North America (FeTNA) and the Chicago Tamil Sangam (CTS), sponsored by International Association of Tamil Research, held at Chicago, Illinois, USA, on July 7 (4-7 July) 2019.

Rajagopal, G. (2019), presented a paper titled “Ethical Discourse in Sangam Classics and Tirukkural”, in the Third International Conference on Thirukkural titled *Thirukkural For World Peace and Harmony*, organized by Institute of Asian Studies, Chennai, held at UNESCO Auditorium, New Delhi, on 23–24 September 2019.

Rajagopal, G. (2019), delivered Endowment Lecture titled “Panmugap Parvaiyil Avvaiyar Pattugal” (“Avvaiyar Poetry in Multiple Readings), instituted in the name of the *Poetess Avvaiyar Endowment Lecture*, organized by the Department of Tamil Language, University of Madras, Chennai, on 29th November 2019.

Dr. Venkat Ramaiah Gampa (2)

Dr. Venkat Ramaiah Gampa (2020). presented a paper titled “Displacement and Social Conflict: A Study of Select Telugu Writings” in the National seminar on *Displacement and Diaspora: Indian Literary Response*, Organized by the Department of Modern Indian Languages and Literary Studies, University of Delhi, Delhi on 5th & 6th, February 2020.

Dr. Venkat Ramaiah Gampa (2019), presented a paper titled “Atreya N.G.O. Natakam: Bhavajalam” in the National seminar on *Swatantryanantara Telugu Sanghika Natakam*, Organised by Sahiti Vedika Delhi on 20th, October 2019.

Extension and Outreach Activities (01)

Rajagopal, G. (2019), serving as the External Examiner for B.A. Tamil Language and Literature Programme of Singapore University of Social Sciences, Singapore – 599 494 since 2018.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 11

M.Phil.: 17

Faculty Strength

Permanent-11

Ad-hoc-3

DEPARTMENT OF PERSIAN

Honours/Distinctions

Prof. Chander Shekhar was awarded the prestigious "Sauhard Samman" for 2018 for his contribution to Hindi and Urdu language and literature by Uttar Pradesh Hindi Sansthan Lucknow on 30th December 2019.

Former Head Prof. Bilqis Fatima Husaini was awarded Ghalib Award 2019 by Ghalib Institute, New Delhi on 20th December 2019.

The 2nd Regional Book Award was organized by the Ministry of Culture and Islamic Guidance, Iran, International Prize Centre of the Islamic Republic of Iran in collaboration with Bedil Foundation, Tehran and Persian Foundation of India. The following faculty members from department of Persian, University of Delhi were honored with the literary awards for Books, in the field of writing, text editing and translations in Persian Literature:

1. **Name of the book:** Aba'd-I Sair-ul-A'rfeen

Authored by: Prof. Rajinder Kumar

Published by: Great Book Publications

2. **Name of the book:** Farhang-I Mira't-ul-Istela'h

Editors: Prof. Chander Shekhar, Dr. Hamid Reza Ghelichkhani, Dr. Houman Yousufdehi

Publisher: Markaz-I Nusakh-I Hind, 2013

3. **Name of the book:** Abdul Husain Zarrinkoub

Authored by: Dr. Mehtab Jahan

Published by: M. R. Publications

4. **Name of the book:** Tahqiq, Tanqid, Tashih-I Matn Aur Farsi Farhangnavisi

Authored by: Prof. Rehana Khatoon (retired)

Published by: Author

Publications (04)

Jahan, M. (2019). *Kawish (collection of Urdu articles)*. New Delhi, Delhi-110002: M.R. Publications, ISBN: 97-93-3327-85-0

Jahan, M (2019). *Faizi Aur Naldaman: Urdu Duniya NCPUL*. New Delhi, Delhi- 110066, ISSN 2249-0639

Majrooh Sultan Puri: Aaj Kal Urdu Monthly Magazine, ISSN: 0971-346, 2019, September

Mathnavi Charagh e Dair Aur us ke Tarajim: Aaj Kal Urdu Monthly Magazine, ISSN: 0971-346, 2020 Feb-March

Seminars organized (02)

Two Day National Seminar on the topic “Persian Historiography in Later Mughals” on 13th and 14th February 2020.

Two Day International Seminar organized on the topic “Aesthetics in Indo–Persian Literature” on 2nd and 3rd March 2020.

Conference organized (01)

3rd International Conference in collaboration with Imam Khomeini International University, Iran, Saadi Foundation, Tehran, Iran and Mobin Cultural Institute, Shiraz, Iran on Oriental Studies on "Ferdowsi as depicted in Persian Culture & Literature" was held on 7th November 2019.

Seminar/Conference presentation (05)

Article presented by Dr. Mehtab Jahan on the topic “Mathnavi Maanavi Ke Teen Qalmi Nuskhe” in a 2 Days International Seminar On Reception Of Rumi in India, organized by Persian Foundation of India & Ghalib Institute New Delhi, 20-30, November, 2019.

Article presented by Dr. Mehtab Jahan on the topic “Mirza Din Mohd Baig Aur Farasat Namah” in a 2 Day National Seminar on historiography during the latter Mughals, organized by Department of Persian, University of Delhi from 13-14 February 2020.

Article presented by Dr. Mehtab Jahan on the topic “Tareekh Navisi Dar Ahd-e-Shahjahan” in a 3 Day international seminar on “Revisiting Persian literature produced during 17th century AD, organized by Institute of Persian Research Aligarh Muslim University, 19-21 February, 2020.

Article presented by Dr. Mehtab Jahan on the topic “Bu Ali Qalandar as A Poet” in a 2 Day National Seminar on Contribution of Sufis in Indo Persian Literature, organized by Department of Persian, Zakir Husain Delhi College, New Delhi from 25-26 February 2020.

Article presented by Dr. Mehtab Jahan on the topic “Muraqqa-e-Dehli: Nathri Jamaliat ka Aaina” in a 2-day International Seminar on “Aesthetics in Indo Persian Literature: Department of Persian, University of Delhi from 2-3 March 2020.

Number of MPhil/PhD degrees awarded

Ph.D.: 02

MPhil: 07

Faculty Strength:

Permanent: 05

Ad-Hoc: 02

Other significant information

1st lecture of Persian Lecture Series organized with the topic “Literary Trends in Contemporary Persian Poetry” by Prof. Syed Ainul Hasan, Dean, School of Languages, Literature and Cultural Studies, JNU.

Two days Orientation/counseling Program especially for entrance examinations as part of social outreach for SC, ST, OBC and EWS candidates was started on 28 June 2019 at 11 AM in Room No 79B

LOCF based CBCS UG and PG syllabus got approved by Executive Council of the University in June 2019.

Throughout the academic session Wednesday seminar were organized on every Wednesday in which students, research scholars and teachers participate and an environment of Persian conversation gets created.

A monthly research scholar's meeting was organized in 25th of October in which research scholars of PhD and MPhil courses apprized with their research progress.

A pledge of integrity was taken by the faculty members, students and staffs of the department on 28th October 2019 at 11 AM.

A unity pledge was taken by the faculty members, students and staffs of the department on 31st October 2019 at 12PM.

2nd lecture of Persian Lecture Series was held on 27th November 2019. The lecture was delivered by Dr. Ehsanullah Shukrullahi, Director, Persian Research Center, Iran Culture House of Embassy of Islamic Republic of Iran.

Faculty members and students attended forth "Professor Syed Amir Hasan Abidi memorial lecture by Professor Sunil Sharma, Professor of Persian and Comparative Literature, Boston University on 23 December.

3rd Lecture of Persian Lecture series by Prof. Iraq Raza Zaidi on the topic of "Prosodic Matters" organized on 31st January 2020.

Annual Amir Khusrao Lecture by Prof. Sunil Kumar, HoD, History organised on the topic of "Times and its didactic possibilities: Sijzi's Fawaid-ul-Fuwad and the fourteenth-century Chishtiyaa" on 15th January 2020.

Monthly research scholar's meeting was organized on 24th January 2020 at 11.30 am in the department of Persian.

Grievance redressal committee meeting was organized on 22nd January 2020 at 3.15 pm in the department of Persian.

Grievance redressal committee meeting was organized on 29th January 2020 at 3.15 pm in the department of Persian.

One Day Workshop on Persian Calligraphy by Iranian experts on 10th February 2020.

Monthly research scholar's meeting was organized 25th February 2020 at 11.00 am in the department of Persian.

Grievance redressal committee meeting was organized on 12th February 2020 at 3.15 in the department of Persian.

Grievance redressal committee meeting was organized on 19th February 2020 at 3.15 in the department of Persian.

DEPARTMENT OF PHILOSOPHY

Major Activities and Achievements

The department during last one year is actively involved in the teaching and research. Unlike any other Department in India, a rich variety of optional courses are offered to the student by the department which provides them a chance to choose specialized areas of study that they can pursue in their further study. Both in terms of publications and research presentations on national and international platforms faculty members of the Department are active and engaging. The department is involved in two research projects by prestigious government organizations such as SPARC and ICPR.

Publications (21)

Abhijat, Sujata Roy (2019) Need and relevance of environmental sustainability In Anusilana BHU Varanasi ISSN No 0973-8762

Bhowmick, Nilanjan (2020). The Other Buddha: Review of *Two Buddhas Seated Side by Side*. Los Angeles Review of Books, <https://lareviewofbooks.org/article/the-other-buddha-on-two-buddhas-seated-side-by-side-a-guide-to-the-lotus-sutra/> (January 26, 2020)

Bhowmick, Nilanjan (2019). Socrates' Image of Recollection in the *Meno*. *Gauhati University Journal of Philosophy*, Vol. 4, pp. 103-114

Bhowmick, Nilanjan (2019). Norms of Foundations. *Prabuddha Bharat*, Vol. 124, August 2019 (pp. 587-596) and September 2019 (pp. 656-666)

Chopra, N. (2019). "Zen, Yoga in Sports and Wellbeingness", Proceedings of UGC sponsored national conference on Latest Trends in Health and Physical Education, August 20 - 21, 2019, organized by University College of Medical Sciences (UCMS), University of Delhi, Dilshad Garden, Delhi.

Chopra, N. (2019). Wittgenstein on Meaning: Explorations in the light of Embodied Cognitive Science, In (Ed.: K.C Pandey) *Recent Responses to the Philosophy of Wittgenstein Life and Works*, by Ludwig Wittgenstein Philosophical Society Publication Series 1, Occam Academic Press, ON: Canada

Devarakonda, B. (2020). Relearning to be at Peace: Exploring Alternative Conceptions. P.Jonkers, H. Xirong & S.Yongze (Ed.). *Self-awareness of Life in the New Era* (pp.141-154). Whashington, D. C., The Council for Research in Values and Philosophy. ISBN 9781565183421

Devarakonda, B. and Jha, J(2020). *Cārvāka-Lokāyata Tradition: A Tradition of Materialist Philosophy*. A. Tomar & S. Kumar (Ed.). *Ancient and Medieval Indian Thought: Themes and Traditions*. (pp.75-82) Sage publications, New Delhi. ISBN: 978-93-5388-232-7.

Devarakonda, B. (2020). Revisiting Dana: A response to Eurocentric Approaches. A. Gupta & A.Mitra (Ed.). *Vasudaiva Kutumbakam: Relevance of India's Ancient Thinking to Contemporary Strategic Reality*. (pp.162-175). Vivekananda International Foundation, New Delhi & Aryan Books International, New Delhi. ISBN 978-81-7305-645-1.

Gupta Aditya Kumar, (2019) Emergence of Consciousness and Human being in *Universal Review Journal*

Gupta Aditya Kumar, (2019) *Manav Kalyan Aur Bhartiya Darshan: Ek Avlokhan*, in *Shodh Mantahan*

Jaiswal, Reetu. (2019). Individualism vs Collectivism: A Debate Between Liberalism and Communitarianism. *Review Journal of Philosophy and Social Science*, 45, 180-184. ISSN: (P)0048- 7325.

Jaiswal, Reetu. (June 2019). The Concept of Power: Tagore and Foucault. *International Journal of Research and Analytical Reviews*, 6(2), 294-298. ISSN 2349- 5138.

Jaiswal, Reetu. (April-June 2019). New Media as the Fifth Estate, *International Journal of Advance and Innovative Research*, 6 (2 (XXXII)), 85-88. ISSN 2394 - 7780.

Jaiswal, Reetu. (2019). Rawls's Original Position: The Question of Gender- Inequality. *International Research Journal of Management Sociology & Humanity*, 10 (7), 134-138. ISSN 2348– 9359 (Print).

Motilal, S. (2019) Eradicating Poverty: The Mission, Vision and Conviction *J. Indian Council. Philos. Res.* 36, pp. 431-445 doi:10.1007/s40961-019-00183-5

Motilal, S.(2019) Eradicating Poverty: The Mission, Vision and Conviction *J. Indian Council. Philos. Res.* Online version: 22 October 2019, <https://doi.org/10.1007/s40961-019-00183-5> Online ISSN 2363-9962

Motilal S. (2019) An Alliance Beyond the Human Realm for Ecological Justice in *Ethique-Economique*, Vol.16 Number 1 pp. 46-56

Motilal, S and Drydyk, J. (2019) An Indian Global Ethics Initiative in Special Issue: Indian Global Ethics Initiative, *Journal of Global Ethics*, Vol.15 Number 1 pp.1-5

Ray, Mitra, Enakshi (2019) Wittgenstein Beyond the Polemics of Determinism Versus Indeterminism in the Conference Proceedings of the 42nd International Wittgenstein Symposium (4th -10th of August) on Crisis and Critique: Philosophical Analysis of Current Events , (ed) Siegetsleitner, A, et al, Verler Publishers, Kirchberg Am Wechsel, Austrian Ludwig Wittgenstein Society, 2019

Ray Mitra, Enakshi, (2019) A Semantic Reading of Quantum Gravity ', *Jadavpur Journal of Philosophy*, Kolkata, January 2020.

Journals

Department teachers serving as Editor(s)/Member(s) of Editorial Board (03)

Prof Balaganapathi.D.

Member of Editorial Board, *Journal of Foundational Research* brought out by Department of Philosophy, University of Rajasthan, Jaipur since 2020.

Member of Editorial Board, *Journal of Indian Council of Philosophical Research*, Springer from 2017-2019

Prof Shashi Motilal

Motilal, S and Drydyk, J. (guest editors) Special Issue: Indian Global Ethics Initiative, *Journal of Global Ethics*, Vol.15 Number 1, April 2019

Dr Aditya Kumar Gupta

Member Editorial Board, *Darshanam, A Journal of I.C.P.R., M.H.R.D.* Since 2019

Research Projects (2)

Prof. Balaganapathi Devarakonda

Yoga Consciousness in Mahābhārata and Bhagavadgita: The Ethical Value for Societal/Political Well-being sponsored under Scheme for Promotion of Academic and Research Collaboration (SPARC) by MHRD, Government of India, Delhi. Co-PI – Dr Geetesh Nirban, Kamala Nehru College, New Delhi.

Dr Aditya Kumar Gupta

‘I.C.P.R.,M.H.R.D., 2017-20 , Advaita, Dharma and National Political Discourse’ ,2.5 Lacs

Seminars Organized (10)

Talk by Prof. Babu Thaliath, Professor, Centre of German Studies, School of Language, Literature and Culture Studies, Jawaharlal Nehru University on “From aporetic to apodictic Certainty in aporetic discourses” on 5th April 2019

Talk by Dr. R. Krishnaswamy, Assistant Professor, Jindal School of Liberal Arts and Humanities, O.P. Jindal Global University, Sonapat, Haryana on “Embodied Phenomenality: A Case for Non-Conceptual Content” on 26th July 2019

Talk by Prof. Daniel G Campos, Professor of Philosophy, Brooklyn College of The City University of New York on “Love in Cultivating Latinx Communities” on 13th September 2019

Talk by Mr. M.K. Shankar, Senior Journalist & Independent Researcher, National School of Drama, Bangalore on “Return of Universals: Music in Focus” on 20th September 2019

Talk by Dr. Christopher Key Chapple, Doshi Professor of Indic and Comparative Theology, Loyola Marymount University on “Thinking with the Yoga Sutra: Turning Back” on 25th October 2019

Talk by Prof. Karamjit S Gill, Professor, University of Brighton (UK) on “Designing AI Futures: A Symbiotic Vision” on 14th November 2019

Talk by Prof. Alfons Puigarnau, Professor, Universitat Internacional De Catalunya, Barcelona on “Plotinus: East and West” on 20th December 2019

Talk by Prof. Anjan Chakravartty, Professor, University of Miami on “Prospects for Realism about Natural Kinds” on 7th January 2020

Talk by Prof. Anuradha Veeravalli, Former faculty, Department of Philosophy, University of Delhi on “Democracy, Rights and Peace?” on 17th January 2020

Talk by Prof. Richard Sorabji, Formerly Director Institute of Classical Studies (London) and Honorary Fellow of Wolfson College (University of Oxford), on “Should free speech be beneficial speech?: An Indian tradition from Ashoka to Gandhi” on 28th February 2020

Conferences Organized (4)

Prof Balaganapathi D.International Seminar on Gender and Freedom in collaboration with Miranda House, University of Delhi, New Delhi on 21st& 22nd February 2020.

Prof Balaganapathi D Seven Day Residential International Seminar on Happiness and Good life: Philosophical Perspectives through cultures jointly organized by Department of Philosophy, University of Delhi and Kamla Nehru College, University of Delhi during 6th to 12th January 2020.

Dr Reetu Jaiswal Convened a National Seminar on Gandhi and Contemporary Issues: Old Theory, New Perspective sponsored by Indialogue Foundation and Gandhi Smriti and Darshan Samiti in collaboration with Gandhi Bhawan (22-23rd Oct. 2019)

Dr Reetu Jaiswal Organized an ICPR and Raza Foundation sponsored first ever All India Philosophy Graduate Conference 2020 in association with University of Delhi (2-4th March 2020).

Seminar/Conference Presentations (36)

Prof Balaganapathi Devarakonda (7)

Delivered Lecture on *Indian Conception of Happiness with reference to Advaita Vedanta* in a 7-day residential International Seminar on Happiness and Good life: Philosophical Perspectives through cultures jointly organized by Department of Philosophy of University of Delhi, Kamla Nehru College, University of Delhi during 6th to 12th January 2020.

Delivered Key note Address on *Contemporary Trends in Practicing Philosophy: Prospects and Challenges* at the International Conference on “Contemporary Trends in Practicing Philosophy” organized by Department of Philosophy, University of Kerala, Trivandrum during 3rd to 6th of January 2020.

Delivered Lecture on *Understanding Religious Violence in Global Times* in the national Seminar on Philosophy of Religion and Religious Conflicts with special reference to the Indigenous religious philosophy of North East India organized by Dispur College, Guwahati during 6th – 8th February 2020.

Delivered Lecture on *Universal Ethics for Everyday life: Reconciling Universal with Concrete* in the national seminar on Universal Ethics for the 21st Century: Towards a Common Understanding jointly organized by Samyeling Tibetan Settlement Office, Majnu ka Tilla and Tibet House, New Delhi on 1st and 2nd of February 2020.

Delivered Lecture on *Professional Ethics: Prospects and Challenge* in the national seminar on “Professional Ethics: Theory and Practice” organized by Department of Philosophy, Mata Sundari College for Women during 21st and 22nd of January 2020.

Delivered Lecture on Indian Sources of Philosophical Counselling in South zone Philosophy Teachers Meet on “Revitalizing Indian Philosophy in 21st Century” organized by Department of Philosophy, Pachaiyappa’s College, Chennai during 5th to 7th January 2020.

Delivered Lecture on *Perspectives on Gandhian conception of technology* in a one-day symposium organized by Assam Science and Technology University, Guwahati on 22nd November 2019.

Prof Shashi Motilal (5)

Presented paper on *Ima Keithel* - The ‘Mother’s Market’ in Imphal, Manipur, India: A Case Study in Sustainable Human Development and Gender Justice in the International Seminar organised by Department of Philosophy and Miranda House on Gender and Freedom on 21st and 22nd February, 2020

Presented paper on Development Ethics and Environmental Justice: the Sardar Sarovar Dam Project: A Case Study in Context at “Connecting Capabilities” organized by HDCA London 2019, (9-11 Sept.2019)

Ethics in Action: Ethics of Governance, Workshop conducted at the University of North Carolina, Asheville, NC, USA. May 29, 2019. Workshop conducted by Shashi Motilal & Keya Maitra

Presented paper on “Development Ethics and Alliances Beyond Human Beings” at PhilCon 2019 organized by Department of Philosophy, Ashoka University, March 23rd 2019

Invited talk on ‘Ethics and Climate Change: Challenges and Prospects’ organised by the Department of Political Science, University of Delhi, in their UGC CAS-SAP National Seminar 24th of February, 2020.

Dr R.M.Singh (1)

Presented a paper titled “Being at Home in the World: A Hegelian Perspective” under Western Methodologies section at ICPR-Department of Philosophy (University of Delhi) organized “All India Philosophy Graduate Conference 2020” from 2nd to 4th March 2020.

Dr Pragati Sahni (3)

Paper presentation entitled “The Status of Plants: A Brief Exploration of Early Buddhism and Jainism” on 24th Feb, 2020 at the World Biodiversity Forum, (co-organized by the University of Zurich) in Switzerland.

Paper presentation entitled “Woman in Early Buddhism” on 4th November 2019 at the Sixteenth Annual *Samvada* [National] Seminar entitled “The Place of Woman in Religion,” at *Udasin Karshni Ashram*, Ramanreti, Mathura, Uttar Pradesh.

Paper presentation entitled “We Should All Be Environmental Ethicists” on 4th October 2019 at a UGC sponsored National Seminar entitled “The Relevance of Philosophy for Students Today,” at Ramanujan College, University of Delhi, Delhi.

Dr. Enakshi Ray Mitra (1)

Presented a paper titled ‘Essence and Contingency: A Comparative Analysis of Nyāya-Vaiśeṣika and Wittgenstein’ in the 4th Conference of Indian Ludwig Wittgenstein Society, organised by Lucknow University and ICPR, held in Lucknow, ICPR Academic Centre, 28th -30th of December 2019.

Dr Sujata Roy Abhijat (5)

Presented a paper titled “Contextualizing Gandhian thought and contemporary environmental challenges” on Gandhian Discourses in Humanities and Social Sciences [NCGDIHSS-2019] [Commemorating 150th Birth Anniversary of Gandhi] organized by NIT-UK and MNIT-J at Jaipur on 2-3rd October, 2019.

Presented a paper titled “The Suppression of Nature and Women: Locating the Debate in the Ecofeminist Discourse” on Gender Issues on 18-19th October 2019, organized by Patna University, Patna Bihar.

Presented a paper titled “Gandhi and the Contemporary Issues: Old Theory, New Perspective” Gandhi Jayanti National Seminar 2019 on October 22-23rd, 2019 Co-organised by Indialogue Foundation Gandhi Smiriti and Darshan Samiti Department of Philosophy, University of Delhi & Gandhi Bhawan, University of Delhi. Presented a paper on Gandhi and Deep Ecology.

Presented a paper titled “Eco Feminism and other Related Issues” on 7th November, 2019 at LSR College, Delhi University, Delhi.

Paper presented on “Women Art and Aesthetics” International Conference Organised By Department of Philosophy University of Delhi In collaboration with Miranda House, University of Delhi on Gender and Freedom 21-22 February , 2020

Dr Reetu Jaiswal (3)

Presented a paper titled “An Analysis of Dialogue as a Method to Deal with Epistemic Injustice” in the Certificate Course in Dialogue Studies 2019 organized by Indialogue Foundation (23rd November 2019)

Invited as a panelist to speak on "Partners' Dialogue on Engaging Men and Boys for Gender Equality" organized by UNESCO, New Delhi (18th December 2019).

Presented a paper titled "Physical and Symbolic Veiling of Hindu Women: Analyzing the Concept of Silencing Women" in an International Seminar on Gender and Freedom (21st & 22nd Feb. 2020).

Dr. Navneet Chopra (4)

Presented a paper titled Wittgenstein, Bhartrhari and Extended Cognition, at the 4th Wittgenstein Conference by "Ludwig Wittgenstein Philosophical Society", on Various aspects of Indian Philosophy and

Wittgenstein, December 28-30, 2019, organised by Department of Philosophy, University of Lucknow, Lucknow.

Presented a paper titled "Philosophy towards a Grand World-View: Exploring the Relevance of Philosophy in its Relation with Existential Phenomenology, Science, and Other Areas", in three days ICPR sponsored national seminar on "Philosophy and its Essentiality: Need & Relevance in Present Time", 24-26 August 2019, organized by Department of Philosophy, M.G. Kashi Vidyapith, Varanasi.

Presented a paper titled "Zen, Karma-Yoga and Embodiment in Sports and Wellbeingness", at UGC sponsored national conference on Latest Trends in Health and Physical Education, August 20 - 21, 2019, organized by University College of Medical Sciences (UCMS), University of Delhi, Dilshad Garden, Delhi.

"Impugning the "theological" Rationalism and Classical Cognitivism - In the light of Embodiment and Heideggerian Phenomenology", at the conference "The Science of Consciousness", Interlaken, Switzerland, June 26, 27, 28 2019.

Dr Gautam Kalotra (1)

Presented paper (under the process of publication) in International Interdisciplinary Conference on Shaiva Siddhanta entitled, "Anbe Shivam: The Tradition and Philosophy of Shaiva Siddhanta" held between 10 to 13 August, 2019.

Dr Aditya Kumar Gupta (6)

Presented a paper on "Sat (Reality) in Nirvan Shatkam of Shankaracharya" at International Dharma Dhamma Conference, Nalanda (July 2019)

Invited Lecture on 'Ethics and Values in Public Administration In India' at H.R.D.C. ,J.N.U., Delhi, August 28th ,2019

Invited Lecture on 'Values for modern world' at Jubilee Hall, University Of Delhi on Aug 30th 2019

Invited lecture at faculty development program organised by Hansraj College University of Delhi october-5, 2019

Delivered invited lecture on "Secularism in Indian and Dharam" at Central University of Jammu on Jan-17, 2020

Delivered invited lecture on 'Advaita and Diversity Of North East India' at Dispur College, Guwahati in Feb 2020

Other Inter-Institutional Collaboration

Dr R.M.Singh Coordinated Faculty Development Program on "Learning Outcome Based Curriculum Framework (LOCF)" Under ATAL Scheme of Ministry of Human Resource Development in collaboration with Ramanujan College conducted from 10th February 2020 to 11th February 2020.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.- 2

M.Phil- 5

Faculty Strength: 15

DEPARTMENT OF PSYCHOLOGY

Major Activities and Achievements

The Department of Psychology offers M.A. in Psychology, M.A. in Applied Psychology and Ph.D. in Psychology. The Department has two units – Psychology Unit in North Campus and Applied Psychology Unit in South Campus. The total number of students, from both the North and South Campus in M.A. Programme are 154 and in Ph. D. Programme are 17. A Total of 14 students have been awarded with a Ph. D. degree this year. The Department also floats Papers of Interdisciplinary nature for the students of the other Departments such as Department of Buddhist Studies, Philosophy, Sociology, English, Sanskrit, Arabic and Linguistics, from the Faculty of Arts, University of Delhi. The research activities of the Department focus around areas of Community Development, Ageing, Multivariate Techniques, Counselling Services and Skills, Advances in Neuro-imaging Research, Buddhism and Psychology, Understanding Self from Indian Psychological Perspective, Art Therapy and Music Therapy.

The Department is supported by grants from UGC-SAP/CAS, ICSSR, DST-FIST, DRDO, AICTE, LSRB, R & D, DU. We received an approved UGC-SAP Grant of Rs. 44 lakhs (Non-Recurring – Rs. 5 Lakhs; Recurring-Rs. 39 Lakhs) in the year 2015 and activities under it are in progress.

Under UGC SAP, the Department entered the Third year of its activities under the scheme.

With regard to publications the faculty members contributed a total of 1 book and 2 publications in journals of national and international repute.

Publications (1)

Sharma, V. Kumar, A., & Mahakud, G. C. (2019). Role of Family Climate in Shaping Entrepreneurial Characteristics. *Journal of Entrepreneurship & Management*, Vol.8(3), Pg. 12-22. 18th July 2019.

Research Projects (1)

Co-Principal Investigator (with Dr. P. Saha, Gujarat Forensic Sciences University, Gandhinagar): “To evaluate the effect of Neurofeedback Intervention Training Module (NITM) on Emotional Regulation, Impulsivity and Aggression in Juvenile Offenders”, Cognitive Science Research Initiative (CSRI) of Department of Science and Technology, Govt. of India, 26 August 2019, Rs. 48, 99,360.

Seminars Organized (1)

National Seminar on “Health & Well-Being: Reflecting on Dominant Practices & Emerging Challenges” on 28th-29th February 2020” under UGC–SAP Programme.

Seminar/Conference Presentations (1)

Dr. Dinesh - Presented Paper on Ethics in Psychological Research: Current Scenario and Future Roadmap (2020) in 1st Annual Conference of International Association of Young Psychologists on Emerging Trends in Behavioural Sciences organized by O. P. Jindal Global University, Sonapat.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 14

Faculty Strength (North and South Campus)

Permanent- 10 (08 + 02)

Temporary-None

Ad-hoc-03

Other Significant Information

The Department has its own Placement Cell. It has been created for the Placements of the students pursuing both M.A. Psychology and M.A. Applied Psychology, from the University of Delhi. The Placement Cell provides a platform for the students to meet and interact with counselling, clinical, corporate organizations, and business houses. Besides this the information of the activities by Central Placement Cell of University of Delhi is also widely circulated in the departments for creating maximum employment opportunities for the students.

The Department also runs a Counselling Centre and a Developmental Resource Centre to meet the specific needs of the community.

The Department has its own website 'psychology.du.ac.in'. The information about the department people, research students, courses run by the department, syllabus, seminars and other events are regularly updated on this website.

The Department also has its own Library cum Reading Hall and Psychological Testing rooms. Books, Test Materials, Technological equipments, and Teaching-learning aids, are regularly purchased from time to time to upgrade the Laboratories and Class rooms into Hi-tech Smart Classrooms. The department has Bio-Feedback Device inclusive of Hardware and Software, Bulletin Boards, White Boards, and Invertor for Power Backup.

The Department also has fully functional Internet access for every teaching staff in their room and in the 03 Laboratories.

DEPARTMENT OF PUNJABI

Honours/Distinctions (01)

Jaspal Kaur honoured by Maitreyi College as alumna and lifetime academic achievements.

Publications (05)

Jaspal Kaur translated a story book Haneri ate hor kahanian for National Sahitya Akadmi, New Delhi.

Ravi Ravinder. (Alias Dr. Ravinder Kumar) (2019). *Antonio Gramsci*. Delhi: Punjabi Academy.

Ravi Ravinder. (Alias Dr. Ravinder Kumar) (Ed.) (2019). *An anthology of stories from North-East India translated into Punjabi*. New Delhi: Sahitya Akademi.

Bala, R. (2019). *Ambi*(Translated), New Delhi: National Book Trust.

Gojra, K. (2019). 'Sukhwinder Amrit de Ghazal KaavvichNaariBimb di Nirmanakaari'. *Samdarshi* (July-Aug, 2019), 170, 62-71.

Journals (01)

Jaspal Kaur serving as Member of editorial board of Samvaad peer review research journal for two years, i.e., 2019 to 2021.

Seminar Organised (01)

Two days National seminar on Amrita Pritam: kalam de Naksh, 11th and 12th April, 2019.

Seminar/Conference Presentations (12)

Bala, R. (2019). Two-Day International Seminar on 'Reception of Rumi in India': Maulana Rumi Ki Punjabi Bhasha Mein Anuvadit Rachnaon Ka Vishleshan, Organised by Persian Foundation of India.

Gojra, K. (2019). Birth Centenary National Seminar on 'Amrita Pritam' : 'Amrita Pritam de Sahitya Vidroh' organized by Sahitya Akademi in collaboration with Punjabi Academy at Rabindra Bhavan, New Delhi, on 20-21 December, 2019.

Kaur, J. (2019). International seminar on legacy and philosophy of Guru Nanak, organized by DSGP committee on 550 birth celebration of Guru Nanak Dev Ji; on 6 & 7 December, 2019 at Mata Sudri College, New Delhi.

Kaur, J. (2020). International conference of Punjabi Diaspora organized by Gujrawalan College, Ludhiana, on 23 and 24 January, 2020.

Kaur, J. (2020). Jaspal Kaur chaired an Academic Session of National Seminar on Bhartiya sant parampravaam Guru Nanak Dev Ji, organized by Nav Unnayan Sahitik society in collaboration central Hindi Directorate, Human Resources Development Ministry Govt. of India on 04th March, 2020 at Faculty of Arts, University of Delhi.

Kaur, J. (2020). International women conference, organized in Dinanagar, Gurdaspur, Punjab; on 6th March, 2020.

Kumar, R. (2019). Ravinder Kumar participated as an organizer, Research paper presenter, Moderator and Rapporteur at Dera Baba Nanak Utsav on 550th Parkash Purb of Sri Guru Nanak Dev Ji, held at Dera Baba Nanak, Distt. Gurdaspur from 07-11-2019 to 11-11-2019.

Kumar, R. (2019). Paper presented on Ethics and Values in Guru Nanak Bani, at three-day International Seminar on the topic 'Glorious Legacy of Guru Nanak in the Era of Globalization' organized by Panjab University, Chandigarh, October 12, 2019 and sponsored by ICSSR, New Delhi.

Kumar, R. (2019). Guru Nanak Dev: Present Perspective and Relevance; Research Paper presented in a two-day National seminar organized by Sahitya Akademi (National Academy of Letters) at Conference Hall, MIL Dept., Guwahati University, Guwahati on 20 October, 2019.

Kumar, R. (2019). Kisani Jeevan Da Punjabi Sahit, Coordinated Seminar and presented an Introductory Note in a one-day Symposium, organized by Sahitya Akademi (National Academy of Letters) and Dasmesh Girls College, Badal (Sri Muktsar Sahib), held at Badal, September 30, 2019.

Kumar, R. (2019). Presided Sahit Manch programme of Sahitya Akademi (National Academy of Letters) and delivered presidential remarks at Sahitya Akademi Seminar Hall on 07 August, 2019.

Kumar, R. (2019). Anuvadik Samvad, Presided a session and delivered presidential remarks in a two-day National Seminar jointly organized by Punjabi Sahit Akademi (Punjab Kala Parishad) and Department of Punjabi, Mata Sundri College, New Delhi at Mata Sundri College on 30 July, 2019.

Ph.D. / M.Phil Awarded

Ph.D. – 04

M.Phil. – 18

Faculty Strength: 08

DEPARTMENT OF SANSKRIT

Major activities and achievements

Prof. Indra Chandra Vachaspati Shastri Memorial Lecture held on 24.04.2019 at 11.00 a.m. in room no.22, Arts Faculty, Delhi University, Delhi. The department celebrated International Yoga Day on 21.06.2019 at Gandhi Bhawan, University of Delhi, Delhi. Sanskrit Diwas was celebrated on 17.08.2019 at Department of Sanskrit, Delhi University, Delhi. Dr. Balram Shukla, Assistant Professor has been granted the Fellowship by Indian Institute of Advanced Studies (IIAS), Rashtrapati Nivas Shimla, Himachal Pradesh to pursue research on the topic Prākṛta kavita ke cāruttva ke bhāṣika prāyojaka. Dr. Uma Shankar has been appointed as Deputy Director, NCWEB, University of Delhi w.e.f. 13.12.2019.

Honors/Distinctions

Bharadwaj, C. R. (2019). (Professor & Head) has been appointed as O.S.D. in School of Open Learning, University of Delhi, w.e.f. 23.07.2019.

Dwivedi, M. (2019). Honoured with Vividhapuraskāra -sāhitya,(2019) on published book –“ Sanskrit Nāṭya: Abhinaya evam paṭa kathā lekhaṇa” by U.P Sanskrit Sansthan Lucknow.

Tripathi, R. K. (2019). Invited as Member of the committee which is constituted by Hon'ble Vice-Chancellor of BBAU, Lucknow for the preparation of Course Structure and the Curriculum for the Department of Sanskrit under the School of Sanskrit and Indic Studies. Meeting held on 22.07.2019.

Tripathi, R. K. (2019): Invited as Member of the committee which is constituted by Hon'ble Vice-Chancellor of BBAU, Lucknow for the preparation of Course Structure and the Curriculum for the Department of Sanskrit under the School of Sanskrit and Indic Studies. Meeting held on 22.07.2019.

Bharadwaj, C. R. (2019): Received award of Guest of Honour in 4th Day International Conference in collaboration with Jamia Millia Islmia, Jawahar Lal Nehru University and University of Delhi w.e.f. 23-26 September 2019.

Dwivedi, M. (2019): has been honoured by Gandhi Bhavan, University of Delhi on the occasion of celebration of 150 Birth century of Mahatma Gandhi on October 2.2019.

Behera, R. (2019): Elected as Executive Council Member for the 51st Session of All India Oriental Conference, BORI, Pune

Behera, R. (2019): Member, Central Research Board, Central Sanskrit University, New Delhi (2019 to Till Date)

Behera, R. (2019-20): Member, Central Admission Committee, University of Delhi for the session 2019-20.

Arya, K.: Received award for best Paper in Vedic Section of 50th All India Oriental Conference,(AIOC) at Nagpur Maharashtra.

Publications (16)

Dindoriya, V. P. (2019). *Vakroktijīvitam-Dvitīya Unmeṣa*, Delhi: Shivalik Prakashan. ISBN - 978-93-87195-68-4

Dwivedi, M. (2019) *Samikṣāloka* (ed.). Jaipur (Raj): Saras Prakashan. ISBN 81-887-66-03-8.

Dwivedi, M. (2020) Satāgragītāyām svāntryasamarāṅkaṇam, *Parishilanam*, 41, 58-69. Lucknow: Uttara Pradesh Sanskrit Sansthan. ISSN 2231- 6221.

Dwivedi, M. (2019) Śikhariṇī-vṛttasyakāvyaṅgunatā, *parishilanam*, Vol-40, 155-163. Lucknow: Uttara Pradesha Sanskrit Sansthan. ISSN 2231- 6221

Dwivedi, M. (2019). Abhijñānaśākuntalam men putrī ke paryāya, *Sanskrit -mañjarī*, 17/4, 68-81. Delhi: Sanskrit Academy. ISSN 2278-8360.

Dwivedi, M. (2019) Sanskrit Nāṭya ki adyatana pravrittīyān, *Sanskrit Vangmay Cintana. Babulal Meena (ed.)*, 203-218. Delhi: Eastern book linkers.

Dwivedi, V. S. (2020). Vedo me pratipadit Rajyasanstha ke Utpatti ke Siddhant, *International Journal of Research and Analytical Review (IJRAR)*, 7, Issue 2(1), 94-104

Kishan, M. (2019). Kavyaprakashanusaram abhitanvavadanvitaa-bhidhanvadyoh Vimarsh , *Mammat ki Kavyavishyak Avdharna: Ek Anusheelan*. Vol- I, 80-83 Publication

Somveer (2019) Mīmāṃsā-vyākaraṇyoh sambandānuśīlanam, *Shodhaprabha*, 24-29. Sri Lalbahadur shastri rashtriya central University, Delhi. ISSN 0974-8946.

Tiwary, D.S. (2019) Bharatiya Nritya Mein Karana Evam Angahara Ki Avadharana (Co-author), *Journal of Arts, Culture, Philosophy, Religion, Language and Literature*, 3 (6), 518-520. ISSN: 2457-0346.

Tiwary, D. S. (2019), Bharatiyaganitaparampara :Adhunikasandarbhah in the proceedings of *Bharatiyagyanaparamparayah Srotah Sanskritam* of National Conference held on 27-28 December, at Jawaharlal Nehru University, New Delhi.

Tiwary, D. S. (2019). Mandirotpatti ke Siddhanta: Braj ke Pramukha Mandiron ke Sandarbha mein (Co-Author), *Journal of Arts, Culture, Philosophy, Religion, Language and Literature*, 3, 242-244. New Delhi, ISSN : 2457-0346.

Tiwary, D. S. (2019), Application of Rasadi Dhvani in the Dramas of Bhavabhuti, *Patliputra Journal of Indology*, 13 (1), 23-30. ISSN No. 2320-351X

Tiwary, D. S. (2019), Anasuya dwara Sita ko Pativrata Dharmopadesha : Ramayana ke Sandarbha mein (Co-Author), *Journal of Arts, Culture, Philosophy, Religion, Language and Literature*, 3, 245-248. New Delhi , ISSN : 2457-0346.

Tiwary, D. S. (DR.) : (May-Aug.2019),Valmiki Ramayanopajeevi Uttararamacharita Natak evam Hanumannataka mein Nari Chitrana- Adhunika Sandarbha(Co-Author) , *Journal of Arts, Culture, Philosophy, Religion, Language and Literature*, 3, 249-251. New Delhi, ISSN: 2457-0346.

Tiwary, D. S. (2019) Chhandasshastriya Parampara mein Sankhyān-Pratyaya : Adhunika Drishtikona (Co-Author), Proceedings of International Conference on *Recent Trends in Humanities, Education, Arts, Culture, Languages, Literature, Philosophy, Religion, Gender and Management Studies (HEALM-2019)*, J.N.U., New Delhi, edited by R.P. Singh & D.S. Tiwary, Krishi Sanskriti Publications, New Delhi, ISBN: 978-93-85822-88-9, pp.157-161.

Journals

Department teachers serving as Editor(s)/Member(s) of Editorial Board (01)

Tiwary, D. S. serving in the Editorial Board of *Patliputra Journal of Indology*, (ISSN – 2320-351X), Patna, Bihar.

Tiwary, D. S. serving as Executive Editor of *International Journal of Sanskrit Research (Ananta)*, ISSN: 2394-7519 Delhi.

Tiwary, D. S. serving in the Editorial Board of *Drishtikon* (ISSN – 0975-119X) Drishtikon Prakashan, New Delhi.

Tiwary, D. S. serving in the Editorial Board of an International Refereed Research Journal Tripathaga July-December 2015, Vol. 1.11, ISSN 2395-4280, BHU, Varanasi.

Tiwary, D. S. (2019): (Ed.), the Proceedings of International Conference on *Recent Trends in Humanities, Education, Arts, Culture, Languages, Literature, Philosophy, Religion, Gender and Management Studies (HEALM-2019)* on 04 May, 2019 at JNU, New Delhi, Krishi Sanskriti Publications, New Delhi, ISBN: 978-93-85822-88-9.

Seminars Organized (02)

Behera, R. (2019). National Seminar on *Vedic Age in the light of Recent Researches* organized by Department of Sanskrit, University of Delhi on 24 September 2019.

Kaul, P. (2020). Seminar organized in Department of Sanskrit, South Campus, University of Delhi on: *Ashok ke abhilekh aur Baudh Dharam*. on 26th February, 2020.

Conference/Workshop Organized (01)

Pandey, B. (2020): Six days workshop on *Navya-Nyaya-Bhasha-Pradip* (10.02.2020 to 15.02.2020) organised by Department of Sanskrit, University of Delhi.

Seminar/Conference Presentation (National/International)

National Level (30)

Behera, R. (2019). Presented the paper entitled *Upanishatsu Nari* organized by WAVES-India 23rd Conference on Vedic Wisdom and Women: Contemporary Perspective at IGNCA, New Delhi on December 5-7, 2019.

Dwivedi, M. (2020): Attended a national seminar on *Sṛṣṭi- vimarsha*, organized by Sri Shankara Shikshayatana New Delhi on February 29, 2020 and presented a research paper entitled - *Chandah samikṣā me yati kā svarūpa*.

Dwivedi, M. (2019): Attended a conference organised by JNU, department of Sanskrit on December 27, 2019 and presented a research paper entitled “*Naṭyaśāstram tat parampara ca*”

Dwivedi, M. (2019). Participated as chairperson in national seminar organised by Waves with collaboration of IGNCA, Delhi on Dec 5,6, 2019 and chaired a session.

Dwivedi, M. (2019): Attended a national seminar as Guest of honour on *Ambhovada- vimarsha*, organized by Kamala Nehru College University of Delhi with the collaboration of Sri Shankara Shikshayatana New Delhi and presented a research paper titled- *Ambhovāda men varaāha tattva-vimarśa*.

Dwivedi, M. (2020). Delivered five lectures on the *Ramayana* and five lectures on *Mahabharata* invited by Bharatiya-vidyabhavan, Delhi on Feb 8,15, 22, 29 & March 7, 2020 in the sessions of 3 to 5 PM.

Dwivedi, M. (2020). Delivered four lectures on the topic of *Dhvanyaloka* in a workshop organised by Philosophy Department, Panjab University, Chandigarh on Feb. 5 & 6, 2020.

Dwivedi, M. (2020): Delivered a lecture on the topic of *Kalidas ki sundarya-drishti*, invited by Sanskrit Department of Bharati college University of Delhi on Jan. 20, 2020.

Dwivedi, M. (2019). Delivered a lecture on the topic of *Bharat aura unaka Natyashastra* at Hindu Girls College, Sonapat Hariyana on Nov. 11, 2019.

Dwivedi, M. (2019). Participated in a One day national seminar on “Paryavarniya Chintan : Bharatiya Drishti” as Guest of honour, organised by Sanskrit Department of Daulataram college University of Delhi and Delivered lecture entitled *Sanskrit Sahitya evam Paryavarana* on Oct.26, 2019.

Dwivedi, M. (2019). Delivered a lecture on the topic of *Bharatiya Natyashastra ki veda-moolakata* in Sanskrit department of PGDAV(Morning) college, Delhi University on Sep. 20,2019.

Dwivedi, M. (2019). Presided a Penal discussion on *Perception in Indian philosophy* organised by Vivekanad college, University of Delhi, Sep. 6,2019.

Dwivedi, M. (2019): Delivered a lecture on the topic of *Bharatita-vidya mem naari evam media* organised by WAVES on Aug. 20, 2019.

Kishan, M. (2020). Participated in a national seminar organised by Shri Jagannath Sanskrit University, Puri Orissa on ‘Vedic Samhitānām vyākhyākārāḥ’ and presented a paper entitled ‘*Telugu Bhaṣāyām vedānām vyākhyānāni*’ on March 6-7, 2020.

Kishan, M. (2020). Participated in a National Seminar organized by Sanskrit Academy, Osmania University Hyderabad on ‘Sanskrit- akādāmyāḥ prakāśanāni’ and presented a paper entitled- ‘*Rasajharī karuṇāśrīḥ: Kavītā Vanamālī*’ on March 13-14, 2020.

Pandey, B. (2019). Participated in a National Seminar in Vyas Samaroh, organized by CCS University Meerut and presented a research paper entitled- *Vimarśo Gāṅgamhātmye Kāvyaśāstra-dṛśā Kṛtaḥ*, from Oct. 29, Nov.2019 to 04,2019 at Meerut UP.

Somveer (2019). Attended Ten days National Text Reading Workshop on Nyāyasiddhāntamuktāvalī-prabodhana- kāryaśālā organised by Karnataka Sanskrit University, Bengaluru from May 25- June 03, 2019.

Somveer (2019): Attended ‘Rashtriya Vedic Shodh Sangoshti’ organized by Swami Samrpananand Vedic Shodh Sansthanam, Gurukul Prabhat Ashram Tikari Bhola Meerut. U.P. with collaboration of Uttar Pradesh Sanskrit Sansthan Lucknow on 10-11 August, 2019 and delivered lecture as special speaker on the topic entitled- ‘*Kauśītaki -Brāhmaṇa me nirūpita darśapaurṇamāsa yāga : eka vivecana*’.

Tiwary, D.S.(2019). Presented a paper on *Prayavarana Pradushana Samasya ke Vaidic Samadhan : Adhunikā Pariprekshya mein* and chaired a Session in National Seminar on Samasamayika Samasyaun ke Samadhan mein Vaidic Vangamaya Ki Upadeyata organized by Sanskrit Evam Anya Prachya Bhasha Vibhag, Mahatma Gandhi Kashi Vidyapeetha, Varanasi on May 10-11, 2019.

Tiwary, D.S. (2019). Attended ‘Rashtriya Vedic Shodh Sangoshti’ organized by Swami Samrpananand Vedic Shodh Sansthanam, Gurukul Prabhat Ashram Tikari Bhola Meerut.U.P. with collaboration of Uttar Pradesh Sanskrit Sansthan Lucknow and Presented a research paper on *Kaushitakibrahman ke Vishayavastu ka Paryalochan: Adhunikā Pariprekshya mein* on August 11, 2019.

Tiwary, D.S. (2019). Presented a research paper entitled- *Shrishti ki Prakriya: Ambhovada Ke Visheshā Sandarbha Mein* in national seminar organized by Sanskrit Department, Kamla Nehru College, Delhi University with the collaboration of Shri Shankar Shikshayatana, New Delhi on September 21, 2019 and chaired a session.

Tiwary, D.S. (2019). Attended a National Seminar on Social Harmony in Vedic Literature organised by Ramjas College (D.U) and Maharishi Sandipini Rashtriya Ved Vidya Pratishthan, Ujjain and Delivered a lecture on “*Vaidik Sahitya mein Manaviya Mulya evam Naitikatha*” November 8, 2019 and chaired a session also.

Tiwary, D.S. (2019). Presented a research paper entitled *Bharatiya-ganitaparampara: Adhunika-sandarbhah* in a National Conference at Jawaharlal Nehru University, New Delhi on 27-28 December, 2019

Tiwary, D.S. (2019). Lecture delivered on *Mathematical Tradition in Sanskrit Literature* at Lady Shri Ram College for Women, University of Delhi on November 7, 2019.

Tiwary, D.S. (2020). Presented a research paper entitled *The Scientific Concept of Rainfall in Sanskrit Literature with Special Reference to Krishiparashar* in All India Oriental Conference – 50th Session at Kavikulaguru Kalidas Sanskrit University, Nagpur on January 10-12, 2020.

Tiwary, D.S. (2020). Attended 50th Session of All India Oriental Conference, organized by Kavikulaguru Kalidas Sanskrit University Ramtek, Nagpur Maharashtra, and presented a paper entitled ‘*Atharvavediya parivarik Sambandho ki Vartman Prasangikata*’ on 10-12 January, 2020.

Tiwary, D.S. (2020). Delivered a Lecture on *Mathematical Tradition in Sanskrit Literature* organized by Department of Sanskrit, Miranda House, University of Delhi on February 5, 2020.

Tiwary, D.S. (2020). Delivered lecture on *Mathematical Tradition in Sanskrit Literature* in one day National Seminar on Sanskrit Sahitya Mien Vijnana Parampara, organized by the Department of Sanskrit, Amity University, Noida, U.P. in collaboration with Uttar Pradesh Sanskrit Sansthan, Lucknow on February 27, 2020.

Tiwary, D.S. (2020). Attended National Seminar on ‘Srishti-vimarsha’ organized by Shri Lalbahadur Shastri Rashtriya Sanskrit Vidyapeeth New Delhi with collaboration of Shri Shankar Shikshayatan and presented a paper entitled ‘*Sristi ka karakatva vyom*’ on February 29, 2020.

Tiwary, D.S. (2020). Attended National Seminar on ‘Kashmiri Acharya Kshemendra rachit Bh ratkathamanjari ki Upadeyata evam Samichinata’ organized by P.G. Department of Sanskrit, University of Jammu and presented a paper entitled ‘*Bharatkatha-manjarikar ki drishti me Devvrat Rajarshi Bhishm ke vyaktitva ka Mulyankan*’ on March 6-7, 2020.

International Level (07)

Tiwary, D.S. (2019). Participated in International Conference on Language Literature and Culture organized by Academic World, Pattaya, Thailand on May 22 -23, 2019 and presented a paper entitled ‘*Protection of Human Rights through Vedic doctrine*’.

Tiwary, D.S. (2020). Invited in International Conference and delivered lecture on *Recent Trends in Humanities, Education, Arts, Culture, Languages, Literature, Philosophy, Religion, Gender and Management Studies (HEALM-2019)* organized by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi on May 04, 2019 and chaired a Tech. Session also.

Tiwary, D.S. (2019). Chaired a Tech. Session no. II in International Interdisciplinary Conference on *Recent Research in Arts, Culture, Literature, Languages, Philosophy, Spirituality and Education*, by Dr. G.C. Mishra Educational Foundation at Jawaharlal Nehru University, New Delhi on August 03, 2019.

Tiwary, D.S. (2019). Presented a research paper entitled *Analysis of the Four Fundamental Mathematical Operations in Ancient Sanskrit Texts* in the 4th International Vedic Mathematics Conference at Chaitanya Bharathiya Institute of Technology, Hyderabad from August 29-31, 2019.

Tiwary, D.S. (2019). Lecture delivered as a resource person in 1st International WAHA Conference on *Mathematical Tradition in Sanskrit Literature* organised by Dev Sanskriti Vishwavidyalaya, Haridwar, Uttarakhand on October 11, 2019.

Tiwary, D.S. (2019). Delivered a lecture with keynote address on the topic “*Position of Women from Vedas to Modern Times: Analytical View*” in one day international conference on Women’s Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women’s Leadership: Issues and Challenges in 21st Century organised by Krishi Sanskriti, New Delhi at Jawaharlal Nehru University, New Delhi on November 9, 2019 and also chaired a technical session.

Tiwary, D.S. (2019). Lecture delivered in International Conference on *Darshan, Art, Aesthetics, Niti and Vigyaan in the Vedas* organised by The Gyan Bindu Educational Society, New Delhi at Jawaharlal Nehru University, New Delhi on December 21, 2019 and also Chaired a technical session.

Other Inter-Institutional Collaboration (01)

A One Day National Seminar Jointly organised by Department of Sanskrit and School of Open Learning, University of Delhi on the title “Vedic Age in the light of Recent Researches on 24.09.2019 in the room no. 22, Arts Faculty, University of Delhi, Delhi.

Placement Details

Ms. Jyotsna, Ph.D. joined as Assistant Professor at Govt. Arts College, Santalpur, Dist. Patan., Gujrat on 27.04.2019.

Mr. Prashant, Ph.D. joined as Assistant Professor at Govt. Arts College, Santalpur, Dist. Patan., Gujrat on 29.04.2019.

Mr. Jayesh Vyas, Ph.D. joined as Assistant Professor at Govt. Arts and Commerce College, Kathlal, Dst. Kheda (Gujrat) on 29.04.2019

Mr. Anuj Kumar Pathak, Ph.D. joined as TGT at KVS (M.P) on 31.08.2019.

Mr. Ramakant Arya, Ph.D. joined as TGT in Sanskrit at KVS, Tripura 31.08.2019.

Mr. Sunil Kumar , Ph.D. joined as TGT in Sanskrit at KVS, Tamilnadu on 05.09.2019.

Mr. Sachin, Ph.D. joined as TGT at KVS, Regional Office, Tinsukia (Assam) on 06.09.2019.

Ms. Shivani, Ph.D. joined as TGT at KVS, Regional Office, Tinsukia (Assam) on 06.09.2019.

Sushila Kumari, Ph.D. joined as TGT in Shimla on 07.09.2019.

Mr. Narender Kumar, Ph.D. joined as TGT in DSSB on 15.10.2019.

Mr. Prashant, Ph.D. joined as TGT in DSSB on 06.11.2019.

Mr. Kashish Arya, Ph.D. joined as PGT in Sanskrit in DSSB on 11.11.2019.

Mr. Neetesh Kumar, Ph.D. joined as PGT in DSSB on 18.11.2019.

Sukant Arya, Ph.D. joined as Lecturer at Sri Sri Bayababa College, Mahakalpada, Kendrapada, Odisha on 04.12.2019.

Vidya Prakash Singh, Ph.D. joined as Assistant Professor at Satna, Madhya Pradesh on 14.12.2019.

Extension and Outreach Activities (02)

Dwivedi, M. (2019) has visited and presided over a meeting organised by Himveer wives' welfare association of Sector Head Quarters Indo Tibetan border police (ITBP) Gangtok (Sikkim) with the wives of force personnel on June 10, 2019 addressing various family issues were addressed and motivational talk was also delivered.

Dwivedi, M. (2019) visited and presided a meeting organised by Himveer wives' welfare association Sector Head Quarters Indo Tibetan border police (ITBP) Gangtok (Sikkim with wives of Indo Tibetan border police personnel on October 11, 2019 addressing their grievances and providing awareness on various socio-cultural issues.

Number of M.Phil/Ph.D. Degree Awarded

Ph.D.: 23

M.Phil: 12

Faculty Strength – 23

DEPARTMENT OF SLAVONIC AND FINNO-UGRIAN STUDIES

Major Activities and Achievements

The Department of Slavonic and Finno-Ugrian Studies is one of oldest and reputed centers of Russian language and literature studies. The department runs full time Ph.D, MPhil, MA and one year Intensive Advanced Diploma course in Russian language.

The department also conducts courses (part-time) in Bulgarian, Czech, Croatian, Polish and Hungarian languages. These courses are hugely popular as the department is the only institution providing teaching of these courses.

Having an added diploma in foreign language also enhances the employability of the students of the University of Delhi.

This gives the Department an opportunity to conduct a variety of activities beyond classroom teaching. A list of these activities is given under point number 13.

This year the Department celebrated one major landmark – 30th anniversary of the establishment of the Department of Slavonic and Finno-Ugrian Studies as an independent entity in Delhi University. This was marked by organizing an International Conference: "Culture, Language and Identity Formation: Diaspora in a Globalizing World (with Special Reference to East and Central Europe and Russia) on 27th – 28th February, 2019 which was supported by the University of Delhi, the Indian Council for Social Science Research (ICSSR); and the Embassies and Culture Centers of Bulgaria, the Czech Republic, Croatia, Hungary, Poland and the Russian Federation, New Delhi. The conference attracted renowned scholars, cultural experts and teachers from different cities of India, as well as from other countries, where Diaspora Studies occupies a prominent place in the academic discourse.

Another Seminar “50 years of celebrating Hungarian and Polish Language Studies in the University of Delhi” was organized in collaboration with the Hungarian Culture Center and the Embassy of Poland. This one-day event was marked by intensive deliberations with eminent scholars, translators and writers who have been working in various fields connected with Hungary and Poland. In order to open a window to the cultures of these countries books, handicrafts and other souvenirs from these countries were displayed at the venue of the Seminar.

As a routine the Department regularly collaborates with the Cultural Centers of the foreign countries to organize lectures and other activities of visiting specialists and experts, which gives the students an international exposure and widens their outlook. The Department draws a large number of students for its foreign language courses.

Honours/Distinctions (03)

Neelakshi Suryanarayan was awarded Diploma of Merit after being declared one of the winners in the XIX International Pushkin Essay Competition, 2019: “Pushkin is energized. Monument or blogger? Do classics interfere with teaching Russian to a new generation?” September 2019.

Neelakshi Suryanarayan was Conferred Medal of Pushkin by the President of the Russian Federation, Mr. Vladimir Putin for contribution in the promotion of Russian language, literature and culture in India., Moscow, November, 2019.

Ranjana Saxena on 19 march 2020 was declared one of the finalists of the first stage of the International Competition of Pedagogical Competence of Russian language Teachers - Zakachai Znaniye! 2020.

Publications (15)

Rani, A. (2020). ОБРАЗ ДОЧЕРИ В ПОВЕСТИ ВИКТОРИИ ТОКАРЕВОЙ «МАРИНА» THE CHARACTER OF THE DAUGHTER IN THE STORY OF VICTORIA TOKAREVA «MARINA», Assonance: A Journal of Russian & Comparative Literary Studies, ISSN 2394-7853, No.20, January 2020

Rani, A. (2019). "Образ матери в творчестве Виктории Токаревой" INDIAN JOURNAL OF RUSSIAN STUDIES, Volume 1, 2019, ISSN: 2582-6514 (Online)

Margit Köves (2019). A háború nomádokká tett minket, Interjú Orcsik Rolanddal, [The War made us Nomads, Interview with Roland Orcsik in Hungarian] *Tempevölgy*, online ISSN 1789-9265 http://tempevolgy.hu/index.php/online/beszelgetosarok/item/220-a-haboru-nomadokka-tett-minket-orcsik-rolanddal-koves-mari-beszletget?fbclid=IwAR03bQ5b0VnL4wWwka5sYpobfZBiUAfU7ZkK6A_E_ETHING9uR0DVEY07hI

Margit Köves (2019). Lover of Philosophy, Obituary of Ágnes Heller, *Frontline*, vol.36 No.16 ISSN 0970-1710, pp.101-102 <https://frontline.thehindu.com/other/obituary/article 28883806.ece>

Margit Köves (2019). Photo-framed Installations Second and Third Generation Narratives about the Partition and the Holocaust in: *Looking back, The 1947 Partition of India 70 years on..* edited by Rakshananda Jalil, Tarun K. Saint and Debjani Sengupta. Orient Black Swan, Hyderabad, reprinted 2019 pp.54-65, ISBN 978-93-5287- 620-4

Munjal, G. (2019) Editor of the Book “TOLSTOY & GANDHI: PHILOSOPHICAL HORIZONS”. Preface by Vladimir Tolstoy & Ekaterina Tolstoy. Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi - 110002. 2019. ISBN-13: 978-81-86198-77-3

Munjal, G. (2019). An Article in English: “Leo Tolstoy’s ‘Kingdom of God is Within You’: Lasting Influences on Gandhi” in TOLSTOY & GANDHI: PHILOSOPHICAL HORIZONS. Ed. By Dr. Girish

Munjal. Preface by Vladimir Tolstoy & Ekaterina Tolstoy. Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi - 110002. 2019. ISBN-13: 978-81-86198-77-3, pp. 131-148.

Munjal, G. (2019). A research article in Russian “*Aesthetic & Philosophical Essence of the Concept of Motherland*” published in Russian Philology, Occasional Papers, Special Issue on “Russian Studies in the XXI Centurey: Current Trends & Innovations”, A publication of the Department of Russian Studies, EFLU, Hyderabad, Telangana, India, 2019. ISSN 2231-1564, pp. 108-129.

Munjal, G (2019). A Research Article in Russian: “*Translating Tolstoy’s Thoughts*” published in ‘Materials of XIII International Seminar of Translators held at Yasnaya Polyana – the Leo Tolstoy Estate-Museum, Tula, Russia. September 2019. ISBN 978-5-93322-126-5, pp.37-44.

Saxena, R. (2019). (co- translation) ‘Zochshenko ki kahaniyaan’ Translation of stories of M. Zoshchenko Published by Shubhda Prakashan, Aug., 2019, pg. 450 ISBN 978-938-603-33-52 (Jointly translated)

Saxena, R. (2019). «ПРОЧТЕНИЕ РАССКАЗА «ДОЧЬ БУХАРИ» Л. УЛИЦКОЙ В СВЕТЕ КРИТИЧЕСКОЙ ИНТЕРПРЕТАЦИИ- ПОНЯТИЯ «МАТЕРИНСТВО». Published by Russian People’s Friendship University, MOSCOW, May 2019. ISBN 978-5-209-09607-8

Veronika Resslerová, ed., (2020), *Pollution Diaries*. 100 p. ISBN 978-80-270-8226-1

Veronika Resslerová, (2020). *Extrakurikulární aktivity lektorátu českého jazyka na Dilliské univerzitě. Krajiny češtiny. Vol. No. 12, p. 65 - 66, ISSN:1804-3283*

Veronika Resslerová, (2020). *Lektorát českého jazyka na Dilliské univerzitě. Krajiny češtiny. Vol. No. 12, p. 18 - 21, ISSN:1804-3283*

Veronika Resslerová, (2020). *Lektorát českého jazyka na Dilliské univerzitě. Český jazyk a literatura. Vol. No. 3. p. 143 - 146. ISSN: 0009-0786.*

Journals

Teachers serving as Editor(s)/Members(s) of Editorial Board (02)

Margit Koves Members of Editorial Board: *Tanulmányok* (Journal of the Dept. of Hungarian Language and Literature, Novy Sad University, Serbia, YU ISSN 0354-9690

Neelakshi Suryanarayan Member of the Editorial Board of the Journal ‘Vestnik’ (series Linguistics) Quarterly Journal of Russian Peoples Friendship University, Moscow, Russia, ISSN 2312-9182 (Print) ISSN 2312 9212 (Online)

Neelakshi Suryanarayan. Member of Editorial Board of Journal ‘Vestnik’ Series – Philology, Theory of Language. Moscow City Pedagogical University, Moscow, Russia. ISSN 2076- 913X

Neelakshi Suryanarayan. Member of Editorial Board of Journal of INDAPRYAL (Indian Association of teachers of Russian Language and Literature) INDIAN JOURNAL OF RUSSIAN STUDIES E-ISSN: 2582-6514 (Online)

Seminars Organized (03)

31st October, 2019 A workshop conducted by Dr. Sunita Gupta (Oncologist) from “Race to reign in Cancer” and “Out Cancer Foundation” with her team on “Breast Cancer Awareness”

7th November, 2019 To mark 150th Birth Anniversary of Mahatma Gandhi, Dr. Suman Khanna Aggarwal Founder and President: Shanti Sahyog a Gandhian NGO, conducted a workshop on “Resolving conflicts in relationships using non-violence: A Gandhian Perspective”.

13th March 2020 Munjal, Girish (Dr.) 2019. Conducted a workshop in Hindi on Film “Tolstoy & Gandhi: a Double Portrait in the Interior of the Age” at Gujarat Vidyapeeth, Ahmedabad, India.

Conferences Organized (01)

Munjal, G. (2019) Conference Co-Director & Convener of the International conference titled “Tolstoy to Gandhi: A Philosophical Journey”, organized by Gandhi Bhawan, University of Delhi in collaboration with Leo Tolstoy Estate-Museum “Yasnaya Polyana”, Russia & Embassy of the Russian Federation in New Delhi on 21-22 November 2019 at Gandhi Bhawan, University of Delhi.

Seminar/Conference Presentations (12)

Koves, M. (2019). One Day International Seminar "Revisiting Nationalism, Multiculturalism & Democracy", on Friday, 1st November, 2019, organized by Rajiv Gandhi Study Circle, Delhi, in collaboration with North East Cell, Kirori Mal College, University of Delhi, to commemorate the 150th Birth Anniversary of Mahatma Gandhi at Academic Auditorium, Kirori Mal College. Keynote Address.

Koves, M. (2019). Panel discussion about László Németh's Drama Gandh's Death organized by the Hungarian Information and Cultural Centre, 29th November 2019. Moderation, introduction to the Play.

Koves, M. (2020). Unraveling Lives: Literary Encounters and Life-writing, International seminar 5-7 March, 2020. Paper: Amrita Sher-Gil and Life-Writing, on 5th March

Munjal, G. (2019). A paper on “*Tolstoy-Gandhi: Philosophical Horizons*” presented through video-conferencing at the International Conference & Exhibition organized by the Embassy of India in Moscow & Yasnaya Polyana – the Leo Tolstoy Estate-Museum at Yasnaya Polyana, Russia on 28th September, 2019.

Munjal, G. (2019). A paper on “*Tolstoy's Search for Inner Self: 'Nivritti' Circling Inward*” presented at the International Conference “Tolstoy to Gandhi: A Philosophical Journey”, organized by Gandhi Bhawan, University of Delhi in collaboration with Leo Tolstoy Estate-Museum “Yasnaya Polyana”, Russia & Embassy of the Russian Federation in New Delhi on 21-22 November 2019 at Gandhi Bhawan, University of Delhi.

Munjal, G. (2019). Gave an Invited Lecture in English on “Tolstoy's ‘The Kingdom of God is within you’: Lasting Influences on Gandhi” at Centre of Gandhian Thought & Peace Studies, School of Social Sciences, Central University of Gujarat, Ahmedabad, India. March 12, 2020.

Saxena, R. (2019). Talk on Chinghiz Aitmatov (Kirghiz - Russian Writer) on "All India Radio" – 19th of May 2019

Suryanarayan, N. (2019). ‘ Address Forms in Indian English Academic Discourse’ International conference - Languages, Nations, Cultures: Pluricentric Languages in Context(s) (LNC 2019)

Suryanarayan, N. (2019). University of Stockholm, Stockholm, Sweden ,May 22–24, 2019

Suryanarayan, N. (2019). “Nikolai Turoverov – Russian émigré poet “rooted in his native soil”: International Conference Forgotten writers «Does anyone remember that we were there.....». Moscow City University, Moscow, 31 May 2019

Suryanarayan, N. (2019).” Russian literary texts as a source of moral education for Indian youth: an intercultural perspective” at the International Conference : Teaching Russian as a Foreign Language and Literature in India : Trends and Development Prospects., Center of Russian Science and Culture, New Delhi, August 21-23rd 2019

Suryanarayan, N. (2019). “India in the light of the Existential Culture Studies theory propounded by Georgii Gachev” at the International Conference: East – West: Intersection of Cultures. Kyoto Sangyo University, Kyoto, Japan. 2-5, October, 2019.

Students under Exchange Programme

Neelakshi Suryanarayan arranged study cum material collection tour of 4 Phd scholars to Moscow City University, Moscow under the aegis of the MOU between University of Delhi and Moscow City University.

Placement Details

Number of companies visited for campus recruitment (1)

23rd September, 2019 a placement programme by VFS Global for Bulgarian Students for recruitment.

Extension and Outreach Activities

Academic and Cultural Activities Of The Department 2019-20

21st June, 2019 The Department of Slavonic & Finno-Ugrian Studies, University of Delhi organized a Yoga session on the occasion of 5th International Yoga Day. The Yoga session was conducted by Ms. Asha Garcha, a yoga expert and Section Officer, Finance Branch, University of Delhi. Ms. Garcha started the session with her expert comments on the usefulness of yoga, followed by teaching pranayam and other exercises. The session was attended by students, staff, teachers and other visiting the Department for admission purposes. The participants felt motivated and asked Ms. Garcha many questions.

26th September, 2019 A Long Knight Writers Meet, Panel discussion by European writers “Writing across Cultures, Writing across Boundaries” was held in Arts Faculty, Room No-22.

Judit Hidas from Hungary, Ales Cermak from the Czech Republic, Emmi Elina Itaranta from Finland, Marta Dzido from Poland and Ciler Ilhan from Turkey visited the Department for a closing session with students and teachers.

23rd October, 2019 Prof. Nikolay Ovcharov and Prof. Plamen Pavlov, eminent historians from Bulgaria visited the Department for a presentation and lecture on “Mission Bulgaria”. The lectures aim was to raise awareness of Bulgaria’s contribution to European and world development in numerous countries of Europe and Asia. It focused on prehistory in the Bulgarian lands, Ancient Greek colonization of Black Sea towns, Roman towns, the creation of the Bulgarian state, the conversion to Christianity and the emergence of the Cyrillic alphabet.

23rd October, 2019 An election (tier 1) held for the Class Representative for the Academic year, 2019-20 of the Internal Complaints Committee (ICC) in terms to section 4(1) (c) of the University Grants Commission (Prevention, Prohibition and Redressal of Sexual Harassment of Women Employees and Students in Higher Educational Institutions) Regulation, 2015. The names of two elected students sent to the Proctor, University of Delhi for onward action.

29th October, 2019 Dr. Petr Abramov, visiting lecturer from Russia delivered a lecture on “Man and space in Russian literature. General characteristics of cosmism philosophy.”

30th October, 2019 The Department of Slavonic and Finno-Ugrian Studies and the Polish Institute of Culture in New Delhi organized a short lecture in English language, by the eminent visiting Polish historian Mr. Lukasz Zalesenki on “Cooperation between the Polish and Indian soldiers during the II World War.”

6th November, 2019 A lecture by Mr. Igor Olegovich Sidorenko, poet and essayist from Russia delivered a lecture on “Trends and tendencies in contemporary Russian poetry.”

Ms. Veronika Ressler (Czech Visiting Teacher) organised an outreach Programme with students and Rikshaw drivers. The students have prepared posters on anti-pollution control which were put up on rikshaws as a message to be conveyed. The rikshaw drivers were rewarded for their efforts and co-operation.

29th January, 2020 Prof. Alfia Smirnova, Visiting Professor from Moscow City University, Specialist in Russian Literature, delivered a lecture on "Russian Literature in exile" in Russian Language on in the Department.

30th January, 2020 Dr. Tatiana Perova, Head, Russian Language Teachers Training Center, at the Russian Center for Science and Culture visited the Department for the following Programme:

- Presentation books under the aegis of a Government Programme - 'Russian Book as Gift.'
- Talk and presentation on celebration of 'Tatyanin den' - (Day of students) which is celebrated on 25th January in Russia

17th January to 31st January, 2020. A Swachhta Pakhwada, 2020 was organized in the Department

- Swachhta Abhiyan (Cleanliness drive) organized on 27th January, 2020 by Faculty, Staff and Students
- Slogan Writing, Poster making and Best out of Waste competition was organized in the Department.
- Prize distribution ceremony and Swachhta Pledge taking ceremony held on Friday, 31st January, 2020.

14th February, 2020 Dr. Karina Stempel (a Polish Poet) visited the Department and presented a lecture on "Polish Modern Poetry"

4th December, 2019 The Department of Slavonic and Finno-Ugrian Studies in collaboration with Embassy of Hungary and Hungarian Information and Culture Centre organized a film show “Sweet Emma, Dear Bobe” (1991) Commemorating the “30 years of freedom”. The screening was followed by a talk by Mr. Balazs Varga, Assistant Professor of Film Studies in Budapest, Hungary.

03rd March, 2020 Slava, 2020 Annual Quiz Competition for the students of all languages (Bulgarian, Croatian, Czech, Hungarian, Polish and Russian) covering questions on Language, Literature, Culture, Geography, History, and Sports of these countries. Student’s teams were conferred with I, II and III prizes.

04th March, 2020 Azbuka, 2020 Annual Quiz Competition for the students of Russian Language. The students from the department as well as colleges participated in the Quiz Competition. Student’s teams were conferred with I, II and III prizes.

Number of M-Phil/Ph.D. Degrees Awarded

M-Phil: 04 (Ms. Preeti Kulhari, Ms. Rashmi Giri, Ms. Jyoti and Ms. Anupma Sharma)

Faculty Strength

Number of sanctioned posts

Professor- 03 (2- Russian/1-Slavic)

Associate Professor- 3

Assistant Professor- 08 (07- Russian\01-Bulgarian)

Present strength of Permanent faculty

Associate Professor- 02 (through CAS)

Vacant Positions

Professor- 03

Associate Professor- 02

Assistant Professor- 06

- Three Assistant Professor (On ad-hoc basis) working in the Department
- Five visiting faculty from Bulgaria/Croatia/Czech Republic/Hungary/Poland under Cultural Exchange Programme
- Five guest lecturers working in the Department

Other Significant Information

Students of the Department participate regularly in various competitions related to the knowledge and skills of language that they are learning and have been receiving awards and prizes for the same.

Several students are receiving the JRF and SRF.

Students are regularly clearing the UGC/NET examination in Russian

Some students are availing of other scholarships namely the Rajiv Gandhi fellowship.

The following scholarships are available for the students of the Department:

UGC sponsored Bulgarian Scholarships under the CEP programme to participate in the summer seminars in Bulgaria.

A three-month merit scholarship for a Croatian language course in Croatia.

Merit scholarships to the students of Czech language offered by the Czech Government from time to time.

Merit scholarships offered by the Hungarian Government and Institutes from time to time.

Merit scholarships offered by the Polish Government for Polish Language Courses in different universities in Poland.

Besides these, there are Non-NET scholarships awarded by the University of Delhi to research scholars of the Department doing M.Phil. or Ph.D.

FACULTY OF AYURVEDIC & UNANI MEDICINE

All India Institute of Ayurveda (AIIA)

Major Activities and Achievements

It is a matter of great pride for us that under the guidance of Ministry of AYUSH Financial Year 2019-20 was marked by great milestones and accomplishments.

- The first ever All India Institute of Ayurveda (AIIA), set up along the lines of AIIMS, was dedicated to the Service of Nation by the Honourable Prime Minister, Shri Narendra Modi on 2nd Ayurveda Day (Dhanvantari Jayanti) on 17th October, 2017 at New Delhi.
- AIIA has also been awarded with NABH Accreditation, therefore becoming the first Ayurveda Hospital in Public Sector to be conferred with NABH accreditation in July 2017, indicating the quality patient services it is rendering. AIIA is a pioneer Institute utilising innovative tools & technology and modern medicine for scientific validation of fundamental principles and for undertaking Research & Development, Quality Control, Standardisation and Safety Evaluation of Ayurvedic medicines. Interdisciplinary clinical research and human resource development programs of the Institute are helping in capacity building in addressing unmet needs of Ayurveda sector. The Institute initially set-up as an Autonomous registered body under MoAYUSH (Registration No. S-E/93/Distt. South-EAST/2013) fully funded by the Central Government with the objective of raising it to the status of National Importance in next 10 years.

Honourable Minister of State (Independent Charge), MoAYUSH, Shri Sripad Yesso Naik accredited AIIA as Centre of Excellence (CoE) in AYUSH Skill Development Courses, during 'Deerghayu' festival organised on the observance of National Ayurveda Day 2019. Dr. Tanuja Manoj Nesari, Director, AIIA is the Chairperson for Ayurveda Subsector Skill Council. The CoE is already running two courses successfully and is in the process of setting up a state of the art skill lab to train manpower in AYUSH sector. The centre is also working for affiliating many more Ayurveda courses for skill development. AIIA, New Delhi strives hard to improve health status and expand preventive, promotive, curative, palliative and rehabilitative services to large sectors of the society.

Honours/Distinctions

1. Prof. Tanuja Nesari, Director awarded was 'Harihar Mukherjee Memorial Award' for outstanding service award in the field of Ayurveda and Ethanopharmacology at 7th International Congress of Society for Ethnopharmacology, India.
2. Prof. Mahesh Vyas, Dean (Ph. D. courses), HoD, Department of Samhita and Siddhanta, and Dr. Pankaj Pathak, Associate Professor, have been felicitated with 'Real Hero Award' by FIT INDIA on 1st July, 2019.
3. Prof. Manjusha Rajagopala has been conferred with lifetime achievement award in Ayurveda on the occasion of 'National Seminar on Ayurveda - The Renaissance 2019', organised by All India Ayurvedic Specialists (PG) Association at Bareilly, UP.
4. *Dr. R. K. Yadav has been conferred with coveted Honorary membership and Diploma by Ukrainian Association of Ayurveda, Kiev, Ukraine. He has also been honoured with coveted Excellence award by Ayushyamritam Society for services towards Ayurveda.*
5. Dr. Pramod Yadav, awarded with coveted Ayurved Shodha Vibhuti Award by All India Ayurvedic Specialist (PG) Association, New Delhi held on 22nd September, 2019

6. Dr. Rajagopala S. has also conferred with 'Dhanwantari Award' on the occasion of Lord Dhawantri Day Celebration, from Integrated Medical Association (IMS-AYUSH) held on 20th October, 2019 at Rajendra Bhawan, DDU Marg, near ITO, Delhi,
7. Hindi Pakhvada was observed at AIIA during 14th and 30th September, 2019 various competition were held in which Dr. Rajagopala S. awarded 1st position in 'Hindi Shrutalekhana' competition and Dr. Mahapatra Arun Kumar awarded with 1st position in 'Creative writing'.

Students with Distinctions

- Top five meritorious scholars of All India AYUSH PG Entrance test

Publications Total Number

- Ahmed, Nasreen and Kajaria, Divya and Bhati, Deepak, Evaluating Clinical Efficacy of Ayurvedic Inhalation Therapy (Aerosol) and Rasayan Therapy in the Management of COPD - A Randomized Cohort Control Clinical Study (December 11, 2019). LANCET. Available at SSRN: <https://ssrn.com/abstract=3502388> or <http://dx.doi.org/10.2139/ssrn.3502388>
- Anu Ruhela, Manish Vyas, Pramod Yadav, Gopal L. Khatik, Galib, P. K. Prajapati, Navneet Khurana, Neha Sharma. 2019 Jul 27. Stability Study of Bhallataka Kshaudra: An Ayurvedic Formulation. Asian Journal of Pharmaceutics,13(3).
- Bhargav Bhide. 2019. Study of the safety profile of raw (Ashodhita) and cow's urine processed (gomūtra śodhita) tubers of *Gloriosa superba* L. (Lāngali) in albino rats. Indian Journal of Natural Products and Resources. 10(3): 210-217.
- Geetika Pahuja, Prashant Kumar, Shivani Ghildiyal, Tanuja Nesari. 2019. Polypharmacy in diabetes: A boon or a Bane, Indian Journal of Health Sciences and Biomedical Research KLEU, 13(1):11-15
- Manjusha Rajagopala , Narayan Bavalatti, Poonam Dhruv. Ayurvedic Management of Lichen Planus with Aphthous Ulcer- PittajaMukhapaka. International Journal of Contemporary Dental & Medical Reviews
- N Bhattacharjya, PR Yadav, PK Prajapati. Jan-Jun, 2019. Preliminary Quality Control Parameters of Maha Sudarshana Ghana Vati- A Pilot Study. Annals of Ayurvedic Medicine, Vol-8 Issue-1-2: 2277-4092.
- Pooja Sharma, DivyaKajaria. Role of Kalpa Chikitsa in the management of lynch syndrome- a case report. J Family Med Prim Care. 2020;9:2487-91.
- Prasanna V N, Sujata Kadam. June 2019 Management of Uterine Fibroid in an infertile woman with Ayurvedic Protocol- A case study.Journal of emerging technologies and innovative research. JEIR Volume-6 Issue -6.
- V Savaliya, AG Patel, N Ranpariya, PK Prajapati. April 2019. Effect of Mulaka (*Raphanus sativus* Linn.) panchanga and Mulaka kshara against cisplatin-induced nephrotoxicity, Indian Journal of Traditional Knowledge. Vol 18 (2): pp 318-324.
- Varnika Singh, Shalini Rai, Vijay Kumar Rai. 2019. A systematical review of traditional Ayurvedic and morden medical perspectives on Ghrita (clarified butter): a boon or bane. Traditional Medicine Research. Online. ISSN 2413-3973. doi: 10.12032/TMR20190325111

- Vishal Kumar, Shivani Ghildiyal, Rahul Sherkhane. 2019. Critical Analysis Of Medohar, Lekhana and Karshan Plants From Nighantus: A Way Foreword To Combat Obesity. Journal of Drug Research In Ayurvedic Sciences; 4 (2): 2581-8295

Journals

- Journal of Ayurveda Case Reports AyuCaRe, A Wolters Kluwer indexed journal
- Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 11

Research Projects

- MoAYUSH, Govt. of India, Ayurveda care for healthy Pregnancy 2018, 1.5 crore
- National Medicinal Plants Board, MoAYUSH, 2019, Development of Standard protocol for quality assessment of Raw Medicinal plants on the basis of Rasa, 12.64 lakhs
- National Medicinal Plants Board, MoAYUSH, 2019, 5 Crores, Establishment of Regional Raw Drug Repository for Trans Ganga Plain
- National Medicinal Plants Board, MoAYUSH, 2019, 18.90 lakhs, National Campaign On Amrita For Life (*Tinospora Cordifolia*)
- PHI, MoAYUSH, 2019, 1.5 crore, Management of Musculoskeletal pain through ayurvedic interventions
- SERB, Rs.31,33,600, Ellucidating pathobiology of classical Ayurveda intervention in post stroke recovery using Magnetic Resonance and other techniques
- MoAYUSH , CCRAS, 1.84 crore, Assessment of Metabolome changes after virechana in healthy volunteer

Seminars Organised

- “JIVANEEYAM -2020 National Seminar on Integrative Oncology” was conducted on 12th and 13th Feb, 2020 by Center for Integrative Oncology, AIIA, sponsored by Information Education and Communication (IEC) Deptt. of MoAYUSH, Govt of India, New Delhi

Conferences/Workshops Organised

- A National level “WORKSHOP ON MANAGEMENT OF DIABETES MELLITUS & PUBLIC AWARENESS PROGRAMME” was conducted by Department of Kayachikitsa, AIIA sponsored by MoAYUSH on 14th and 15th November, 2020.
- Two days’ consultative national workshop on ‘Integrative Management Protocol to Cancer’ was conducted on 10th and 11th Feb 2020 at AIIA, New Delhi, sponsored by Information Education and Communication (IEC) Deptt of MoAYUSH, Govt. of India, New Delhi
- Mecon-Ganga workshop on TCM – 22.10.2019: MCG workshop on Traditional and Complementary Medicine (TCM) was jointly organised by MoAYUSH and AIIA on 22nd October, 2019.
- Workshop on Ayurveda Dietetics for participants from Germany: A two-day international workshop on Ayurveda Diagnostics, Dietetics and Child health care was organised for participants from REAA, Germany on

dates 17th & 18th February, 2020; jointly organised by ICCA and Dept. of Dravyaguna and Dept. of Kaumarabhritya, AIIA.

Seminar/Conference Presentations

1. Presentations presented by PG Scholar Dr. Swati Chauhan, Dr. Manisha Aggarwal, Dr. Sonam, Dr. Monika national conference “8th World Ayurved Congress & Arogya Expo, Re-aligning the focus on Health, on 14th – 17th December – 2018, Ahmedabad, Gujarat

National/International MoUs Signed

- MoU with Shimane University, Japan signed on 10.12.2019 by H.E. Ambassador of India, Japan on behalf of AIIA for Academic collaboration in Ayurveda.
- MoU with FIZZ - Frankfurt Biotechnology Innovation Center, Frankfurt, Germany for research collaboration in the field of Ayurveda on 31.10.2019.
- MoU signed between AIIA (AIIA), MoAYUSH and Western Sydney University (WSU), Australia on 21st Nov, 2019 at MoAYUSH) MoU signed between AIIA, New Delhi and The Medical University of Graz, Graz, Austria on Cooperation and Collaboration in the field of Ayurveda on 26th September, 2018.

Other Inter-Institutional Collaboration

Workshop on Ayurveda Dietetics for participants from Germany: A two-day workshop on Ayurveda Diagnostics, Dietetics and Child health care was organised for participants from REAA, Germany on dates 17th & 18th February, 2020; jointly organised by ICCA and Dept. of Dravyaguna and Dept. of Kaumarabhritya, AIIA.

Students under Exchange Programme

- Inbound/Outbound

Extension and Outreach Activities-

AIIA besides patient care is also extending its clinical services to the society through health camps and various other activities.

S.No	Camps	Dated	Venue
1.	Free Health checkup Camp	23.06.2019	Sec.29, D- Faridabad Nena devi sewa samiti
2.	Free Health checkup Medical Camp	11.08.2019	Faridabad Maheshwari Sewa Trust
3.	Free Health Checkup Medical camp	15.09.2019	Shri Gopal Goushala Trust, Faridabad
4.	Free Medical checkup camp	12.01.2020	Indraprasth Agrasen sewasung
5.	Swarnaprashana Paramarsha Camp coordinated by Dept. of Kaumarabhritya	07.11.2019	Ramlila Grounds, Ghaziabad,01
6.	Swarnaprashana Camp coordinated by Dept. of Kaumarabhritya	05.01.2020	Oswal House, Jhilmil, Shahadra

- Blood Donation Camp: on 17th October 2019
- Osteoporosis Screening Camp (free) – 16th January 2020 to 16 March 2020
- Patient awareness lectures- a lecture/week on different aspects for staying healthy, prevention of disease, diet and lifestyle in different diseases and other aspects regarding some caution symptoms, and their recognition.

Library Development

Collections

- Books : 15,376
- CDs : 300
- News Papers : 06
- Magazines : 08

Faculty Strength: 37

Financial Allocation and Utilization

(a) Grant sanctioned in Rs.47.27/- cr.

(b) Utilized in Rs.46.80/- cr.

Other Significant Information:

AIIA is also working to spread Ayurveda knowledge in the other less known domains nationally as well as internationally, to bring Ayurveda to mainstream. The following visits were facilitated by AIIA for the same -

- Visit of NITI AYOOG Officials in April 2019.
- Visit by AS & FA from Ministry on 20th May 2019
- Visit of delegates from Cuba on 21st May 2019
- Visit of Bangladesh Delegation to India from 21st August to 22nd August 2019
- Visited to AIIA facilities by FiZ team from Germany on 31st October 2019
- Visit of Hon'ble Minister Sh. Suresh Prabhu on 4th April 2019

FACULTY OF COMMERCE AND BUSINESS

DEPARTMENT OF COMMERCE

Major Activities and Achievements

The Department of Commerce has pioneered commerce education in India and is known for its faculty and students. It has a very rich pool of alumni spread across countries and sectors of industry. In order to make the students witness a great deal of learning, knowledge and enthusiasm, department has been extensively

involved in several academic as well as extra-curricular activities. From the academic front, the Department was able to surface the revised undergraduate {B.Com.(Hons.), B.Com., B.A.(Prog.) commerce-based papers} as well as Post graduate syllabi {MBA (IB/HRD) and M.Com.} and implemented it from July 2019 batches. As a part of the Department's annual activity calendar, 7th AICC was organised on the theme "Organisational Realities: Changing Paradigm of HR" which inspired enriching minds across the nations to deliberate and draw important insights on changing paradigms of human resources. An initiative to bridge the gap between the Department and Colleges and to reinforce the collaboration for larger academic good has been undertaken by the Department called as Department college interface. DCI is a step to move forward in the direction to achieve sustainable collaborative process of learning and co-operation with the participation and thought-provoking inputs from august faculties. Annual Management Fest (Synergy'20) was organized by the students of MBA comprising of events: Corporate Cracker, Ad Mad and Fifa. 24th Annual Business Convention of the Department of Commerce - Erudition' 19 was organised and the theme of the convention was *Convergence: Sustainability-Driven Innovation*.

Honours/Distinctions

Faculty

Dr. Amit Kumar Singh received the "Best Paper Presentation award" at the 20th International Business Horizon (INBUSH) 2020 conference on "Sustainable Development Goals & Businesses as Active Change Agents" organized by Amity University, Noida. (18th -20th Feb'20)"

Dr. Shikha Sachdeva received the "Best Paper Award" at the 7th Annual International Commerce Conference (AICC) on "Organisational Realities: Changing Paradigm of HR" organised by Department of Commerce, DSE, Delhi. (17th-18th January, 2020).

Dr. Shikha Sachdeva received the "Best Paper Award" at the National Conference on "Exploring Spiritual Foundations of Leadership and Management" organised by DME Management School, Noida (14th - 15th February, 2020)

Publications

- Dangi, H. K., Kaur, A., & Jham, J. (2019). Structural Equation Modeling: A powerful antibiotic. *Journal of Business Thought*, 10, 19-23.
- Kanojia, S., & Khanna, G. (2019). Women Directors on Corporate Boards: Evidence for Good Governance, *Corporate Governance Insight*, 1(1), 26-52.
- Shama J P, Kanojia S & Kumar H, (2019), Corporate Social Responsibility and Corporate Governance: Evidence for Sustainability, *Chartered Secretary*, Vol 49, NO: 12, PP: 90-97, ISSN 0972-1983.
- Kaul, A., & Singh, A. K. (2019). Structural capital: A comparative study between information technology and real estate sector of India. *International Journal of Business Insights and Transformation*, 12(1), 64-73.
- Rajput, M., & Jhunjhunwala, S. (2019). Corporate governance and payout policy: evidence from India. *Corporate Governance: The International Journal of Business in Society*.
- Sharma, N., & Singh, R. K. (2019). A unified model of organizational effectiveness. *Journal of Organizational Effectiveness: People and Performance*, 6(2), 114-128.

- Shrotryia, V. K., & Aggarwal, R. (2019). Exploring Relationship among Entrepreneurs' Success, Psychological Capital and– A Financial Performance Study of Startup Entrepreneurs in India. *The Indian Journal of Commerce*, 72(1), 1-18.
- Shrotryia, V. K., & Dhanda, U. (2019). Content Validity of Assessment Instrument for Employee Engagement. *SAGE, Open*, 9(1).
- Shrotryia, V. K., & Dhanda, U. (2019). Measuring Employee Engagement: Perspectives from Literature. *The IUP Journal of Organizational Behavior*, 18(3), 26-47.
- Shrotryia, V. K., & Kalra, H. (2019). An Empirical Investigation of Herding in the Indian Stock Market. *E-Journal of Social & Behavioural Research in Business*, 10 (1).
- Shrotryia, V. K., & Singh, S. V. P. (2019). In Defence of Inclusion of Happiness in Public Policy for India. *India Policy Foundation, New Delhi. (Monograph)*.
- Singh, R. K., Sharma, N., & Sachdeva, T. (2019). Values, Organizational Culture & Organizational Effectiveness in India. *The Indian Journal of Industrial Relations*, 54 (4).
- Kanojia S, Sharma J P & Jain S (Jan 2020), Board Structures, Board Diversity and Corporate Governance, Evidence for Listed Indian Companies, IUP, *Journal of Corporate Governance*, (ABDC Listed, Scopus listed)
- Kaur, M.A., & H.K. Dangi (2020). Social Networking Sites and Social Capital: A Study on Life Satisfaction, Trust and Civic Participation, *Our Heritage*, 68(30), 7004-7025.

Books Published/Edited/Chapter in Book

- Kanojia, S., Singh, D., & Goswami, A. (2019). Behavioural Biases and Trading Volume: Empirical Evidence from the Indian Stock Market. In *Advances in Management Research Innovation and Technology* (pp. 115-126). Taylor and Francis Publication.
- Shrotryia, V. K. (2020). *Human Well-Being and Policy in South Asia*. Springer.
- Sharma, N. & Lal, M. (2019). Empirically examining green trust to gain green competitive advantage through green purchasing intentions. In *Green Consumerism, Perspectives, Sustainability, and Behavior (Ed)*, New Jersey 08758 USA: Apple Academic Press, Inc.9 Spinnaker Way Waretown.
- Sharma J. P., & Kanojia, S. (2019). *Business Laws*. Bharat Law House.
- Singh, R. K., & Babbar, M. (2019). An Inclusive Lens to Different Religions at the Workplace. *National Conference on Global Sustainable Innovations and Alliance*. Delh: Maximax Publishing House.
- Singh, R. K., & Batra, G. (2019). Stakeholders' perceptions on motivations and impediments in corporate sustainability reporting. In *Business Innovation and Sustainability* (pp. 1-17). Bloomsbury India.
- Tripathi , V., & Pawar , N. (2019). *Investing in Stock Markets*. Delhi: Taxmann Publications.
- Bhasin, Niti and Rinku Manocha (2020). "An Examination into the Dynamics of India-EU Trade and Investment Engagement". In *Responsible Business Professionals: A Strategic Perspective of the Global Challenges*, Rabi Narayan Kar, Kaisa Sorsa and Kusha Tiwari (eds.), pp. 52-80. Cambridge Scholars Publishing: UK. (ISBN: 978-1-5275-4791-9)

Journals Published by the Department

Journal of Commerce and Business Studies

Number of Faculty Members Serving as Editor(s)/ Members of Editorial Board -5

Prof. R. K Singh serving as Member, Editorial Board, Delhi Business Review, ISSN - 0972-222X, e ISSN- 2277-7725

Prof. R. K Singh serving as Member, Editorial Advisory Board, International Journal of Commerce and Management – ASPIRARE, ISSN 2394-0484, e ISSN- 2394-6601

Prof Ajay Kumar Singh: Editor in Chief, Delhi Business Review – An International Journal of SHTR

Prof Ajay Kumar Singh: Joint Managing Editor, Quarterly Journal of Management Development – Journal of Indian Association for Management Development

Dr. Sunaina Kanojia member, Editorial Review Board of Business Analyst, a Refereed Journal of Shri Ram College of Commerce. ISSN: 0973211X.

Dr. Sunaina Kanojia, Editor, Corporate Governance Insight, International Journal published by Global Research Foundation for Corporate Governance, Dec 2019, Vol I, No II. E-ISSN: 2582-0834

Dr. Sunaina Kanojia,, Associate Editor, Journal of Commerce and Business Studies, published by Department of Commerce, Faculty of Commerce and Business Studies, University of Delhi.

Dr.Amit Kumar Singh , Member of the Editorial Board of the International Journal ‘Research in Business Management ‘, Macrothink Institute, Las Vegas, USA.

Dr.Amit Kumar Singh , Member of the Editorial Board of the Journal of Business Studies: A Journal of Shaheed Bhagat Singh College, University of Delhi

Dr.Amit Kumar Singh , Member of the Editorial Board of the MANTHAN: Journal of Commerce and Management, Journal Press India

Dr.Amit Kumar Singh , Member, Editorial Board of Indian Journal of Research in Capital Markets.

Dr. Shital Jhunjhunwala, Amity Journal of Commerce and Financial Review (AJCFR)

Research Projects

Prof. MadanLal , Indian Council of Social Science and Research entitled “ An Analysis of Trade, Economic Growth and Poverty in India”, , Rs. 300,000. (Completed in June 2019)

Dr. H.K. Dangi, ICSSR Delhi, sponsored project entitled Pre-purchase Information Search Behaviour for Healthcare Services, Rs. 3,00,000. (Completed in January 2020)

Dr. Ashish Chandra , funded by: Department of Consumer Affairs, Ministry of Consumer Affairs, Food & Public Distribution, Government of India, entitled, "Customers' Education and Consumers' Awareness w.r.t. their rights and protection against Malpractices by manufacturers, distributors, retailers and sellers of various products and services - A Research-cum-implementation project to be conducted phase-wise in different urban and rural areas of India." Grant: Rs. 10,00,000/-.

Seminars Organized/ Guest Lectures Organised

The Annual Business Symposia is a flagship event of the Department of Commerce, conducted under the helm of Industry Interaction and Student Activity Committee (IISAC). This promising student-run event is held every year with the aim of bringing various industry experts spanning across diverse fields to a common platform to discuss topics pertaining to the evolving business and economic paradigms

GUEST LECTURES

S.NO.	DATE	NAME OF THE GUEST	COMPANY	TOPIC
1	21/7/19	Mr. Ayush Ajmani	Delhivery	Induction
2	22/7/19	Mr. Sahil Bhushan	To the New	Induction
3	7/8/2019	Mr. Parth Parikh	FinShiksha	Skills expectations from the industry and Career Options in Finance
4	8/8/2019	Mr. Alok Srivastava & Mr. Abhishek Srivastava	MBA Trek	Interaction
5	8/8/2019	Mr. Shveta Paul	KPMG	Interaction
6	9/8/2019	Mr. Hetal Sonpal	Angel Investor	The Race to Forty
7	14/9/19	Mr. Sanjay Beswal	Andees Consulting	Interaction
8	3/10/2019	Mr. Aswani Bajaj	Leveraged Growth	Interaction
9	3/10/2019	Mr. Nitesh Jain	KPMG	Interaction Session on Lean Six Sigma
10	9/11/2019	Mr. Krishan Kumar Arya	Finning - UK	Management Aspects of International Business
11	21/3/2020	Ms. Geetika Bangia	Philips	Corporate Communication
12	25/3/2020	Sharad Sagar	Dexterity	Interaction
13	2/8/2019	Kavya Saxena	Vajor.com	Leveraging Social Media as a Tool for Recruitment
14	3/8/2019	Deepak Goyal	Edu4sure	How to leverage 2 years of your MBA
15	3/8/2019	Amit Kumar	Info Edge India Ltd	Interaction
16	3/8/2019	Gunjan Chhibber	NASSCOM	Interaction

17	3/8/2019	Rishi Raj Gupta	Facebook	Interaction
18	7/8/2019	Mr. Abhishek Srivastava, Mr. Rahul Jain, and Ms. Ayushi Gupta	Mbatrek	Importance of Internship/Live Project during MBA
19	5/9/2019	Rajeev Kandari	Asper Life Sciences	Interaction
20	7/9/2019	Subroto Baul	Philips Health Care	Aptitude for career in Human Resources
21	7/9/2019	Navneet Setia	GlobalLogic	Workshop
22	11/9/2019	Avadhesh Dixit	Moody's Analytics	Careers in HR: Road Ahead
23	8/21/2020	Alan Antony	Landis+Gyr	Am I Corporate Ready ?
24	9/28/2020	Siddharth Silawat	Vodafone Shared Services	Performance Management
25	10/19/2020	Rishi Garg	G4S	Compensation and Benefits
26	2/11/2019	Saswati Sinha	Cheil India	Employer Branding
27	2/11/2019	Ashutosh Sharma	Pearl Global Industries Ltd.	Leadership in HR
28	2/11/2019	Arijit Chakraborty	EY	Overview of People Analytics & Deployment of People Analytics to Solve Business Problems (Case Study)
29	7/11/2019	Chandan Shamnani	Sophos	1) Organisational Diagnosis 2) Competencies required to do diagnosis for teams and systems as OD/HR consultants
30	7/11/2019	Unmesh Shukla	JK Cements	Talent Management
31	7/11/2019	Deepti Rishi Varma	Aon Hewitt India	Diversity Inclusion at Workplace
32	8/11/2019	Mukul Chopra	Club Factory	HR Role in Merger and Acquisitions
33	8/11/2019	Rishi Raj Gupta	Facebook	Wage Laws and Compensation
34	9/11/2019	Harini Sreenivasan	Affiliate Partner, SSI India & Chief Mentor HR,	Exploring Agile in Organization Design

			Intelliswift Software Inc.	
35	11/1/2020	Avinash Kohli	Boeing India	Interaction
36	11/1/2020	Anand Mohan Mishra	Neev Foundation & Rishi Group of Educational Institutions	Interaction
37	1/21/2020	Gaurav Jhingran	IndiaMart	Leadership
38	1/24/2020	Rahul Agarwal	Vyaktitva	Learning and Development
39	2/18/2020	Lokesh Lalwani	Freelance Trainer	Excel Workshop
40	2/19/2020	Lokesh Lalwani	Freelance Trainer	Excel Workshop
41	2/27/2020	Lokesh Lalwani	Freelance Trainer	Excel Workshop
42	2/29/2020	Lokesh Lalwani	Freelance Trainer	Excel Workshop
43	3/3/2020	Vipra Babbar	Meero	Batch Assessment

SPECIAL LECTURES

Gems of University series

S.No.	Date	Name of the Resource Person	Designation	Topic
1.	05-03-2020	Prof. Ram Singh	Professor, Dept. of Economics	The New Data Economy: Challenges and Opportunities for Indian Companies

Conferences Organized

The 7th Annual International Commerce Conference - 2020 was held on 17-18 January, 2020 and the theme of the conference was "Organizational Realities: Changing Paradigm of HR". 7th AICC aspired to provide a platform to academicians, researchers, industry experts, and policy makers for deliberations on various facets of the evolving HR function in context of changing organizational realities. The conference intended to bring out recommendations for HRD stakeholders and networks.

The Erudition' 19 was about casting the spotlight upon those innovators who changed their business models because of sustainability and have also been able to give the best to their organizations with new sustainable innovative practices. As part of the event, Day 1 focused on themes pertaining to International Business namely, *Behavioural Investments: Dealing with hybrid markets*, *Globalization in Transaction: Future of trade and value chain* and *Cause Marketing: Driving the Transformation* and Day 2 delivered panel discussions on themes related to Human Resource Development: *The Pursuit for innovation: Putting Human Resources at the helm*, *The Fall of Boundaries: Do organizations need to rethink Hierarchy* and *Convergence of Re-Imagination and HR: The Future of How Work Gets Done*. The convention Erudition' 19 enlightened the participants about how more purpose is accorded to the mannerisms of conducting

business and how the people who drive these ensure that the paths of Innovation and Sustainability come together to create the business models for a better tomorrow.

Seminar/Conference Presentations

- “An Inclusive Lens to Different Religions at the Workplace”, National Conference on Global Sustainable Innovations and Alliance, Sri Guru Tegh Bahadur Institute of Management and Information Technology, GGSIP University, Delhi, 5th April, 2019 (Prof. R K Singh and Ms. Mansi Babbar)
- ‘Board Structure, Board Diversity and Corporate Governance: Evidence from listed Indian companies’, 20th Workshop on Corporate Governance and Investment, Oslo Met University, Oslo, Norway 26th - 28th September, 2019 (Dr. Sunaina Kanojia).
- ‘Adaptation of E-Wallets: An empirical study of consumer behaviour’, IMI-NASMEI Summer Marketing-IS Conference, IIM Indore, 26th -28th July, 2019 (Dr. Ashish Chandra).
- ‘The Impact of Internationalization on Financial Performance- A selective study of family & non-family firms’, 10th Conference on Excellence in Research & Education (CERE 2019), Indian Institute of Management, Indore, 3rd -5th May, 2019 (Dr. Amit Kumar Singh).
- “Bilateral Investment Treaties and FDI Flows in BRICS: Examining the Role of Development of Source Countries” at the Fifth Biennial International Conference jointly organized by Sri Guru Gobind Singh College of Commerce and Sydney Business School, held on 6-7 March 2020 in Delhi (Authors: Niti Bhasin and Surbhi Gupta)
- “Sustainable Development Goals & Businesses as Active Change Agents” organized by Amity University, Noida ,18th -20th Feb’20. (Dr. Amit Kumar Singh)
- Religious diversity at workplace: a literature review’ presented at 7th PAN-IIM-World Management Conference at The United Service Institution of India, New Delhi, organized by IIM Rohtak on 12-14 December, 2019. (Prof. R.K. Singh)
- ‘Analyzing the impact of religious diversity at workplace’, 17th AIMS International Conference, organized at IIM Kozhikode on 6-7 January, 2020. (video conference) (Prof. R.K. Singh)
- Organizational Commitment & Citizenship Behavior: The Internal Consequences of Perceived CSR, 7th Annual International Commerce Conference organized by Department of Commerce, Delhi School of Economics, University of Delhi on 17-18 January, 2020, Delhi. (Prof. R.K. Singh)
- Religious diversity at workplace: churning the existing literature. 7th Annual International Commerce Conference on ‘Organizational Realities: Changing Paradigm of HR’ organized by Department of Commerce, Delhi School of Economics, University of Delhi on 17-18 January, 2020. (Prof. R.K. Singh)

Placement Details (Number and percentage of students placed)

MBA (IB)

Number and percentage of students placed: 39, 68%

Number of Companies visited for campus recruitment: 55

MBA (HRD)

Number and percentage of students placed: 25, 54.34%

Number of Companies visited for campus recruitment: 27

M.Com

Number and percentage of students placed: 29, 18%

Number of Companies visited for campus recruitment: 23

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 18

M.Phil.: 37

Faculty Strength

Professors: 07

Associate Professors: 08

Assistant Professor: 01

Assistant Professor (Ad-hoc): 14

Other Significant Information

Innovative Initiatives:

Gems of University lecture series: Gems of University lecture series is an initiative undertaken by Department of Commerce which involves inviting people from varied departments of University of Delhi to provide a platform for interdisciplinary nature of research and confluence of great ideas.

Department College Interface: It is an endeavour to bridge the gap between the Department and Colleges and to reinforce the collaboration for larger academic good. In this context, meetings are held wherein notable insights are received from intelligentsia from different colleges pertaining to pedagogy that needs to be revamped to establish a sync between teaching and examination process, impart market-based knowledge to the students and hold interactive meetings, seminars, workshops, research forums to advance dialogue and learning.

Alumni Outreach: The Alumni Outreach was conducted on 16-17 Sept 2019 in Mumbai and Bangalore, where the Alumni Team met 20 alumni in Mumbai. In Bangalore, the team met 14 alumni.

Teachers' Day 2019: Students celebrated Teachers Day to honour their teachers with a motive to devote the day to teachers and make it a remarkable memory for them. The program started with lamp lighting followed by Ganesh Vandana. With an igniting speech by Head and Dean, Prof. R K Singh, a series of events followed – a Choir performed by an NGO Manthan, group singing performance, dance performances, musical act, duet songs, instrumental, skit, and fun games in between. They expressed their appreciation and gratitude for the contribution of the faculty members in their life.

Orientation Programme 2019: Orientation programme was conducted for the new incoming batch of M.Com. MBA-IB, MBA-HRD at the opening of the academic session and M.Phil. /Ph.D.

MBA Valedictory 2019: The students of the batch of 2019, MBA (HRD) and MBA (IB) courses gathered on 30th April 2019 to relive the joyous memories they all created together in the past two years. They all were greeted by Prof. R.K. Singh, Head of the Department. The event was then followed by mesmerizing words and experience sharing by faculty members.

M.Com Farewell 2019: The ECA Society of M. Com. students, organized an official farewell in the honor of the outgoing batch of M. Com. on 22nd April 2019. The event commenced with the lamp lighting ceremony by senior faculty members.

KPMG SIX Sigma Workshop: The students of MBA IB, had the opportunity of being a part of a certification workshop on Lean Six Sigma conducted by KPMG. It was a four days certification workshop, which started on 16th Nov 2019. During the workshop students got various insights into how different organisations apply the six sigma methodologies to make the process more efficient.

International Yoga Day: The department celebrated the fifth International Day of Yoga on 21st June 2019. Prof R K Singh, Head, Department of Commerce, addressed the gathering and emphasized that Yoga should be a part of our daily life and should not be restricted to a particular day. Further he explained the types and benefits of Yoga. Dr H K Dangi, Associate Professor, Department of Commerce demonstrated various *asans* and *pranayams* for the benefit of all the participants who responded positively.

Sahaj Yoga - The department organised a seminar on Sahaj Yoga on 3rd February 2020 for the faculty and students by experts to share the unique method of meditation by Kundalini Awakening and Self Realization through which one can achieve a beautiful state of thoughtless awareness and protect oneself through immunity by meditation.

Alumni Dinner: Alumni Dinner was organized on February 1, 2020 at Eros Hotel, Nehru Place. Alumni Dinner provides an opportunity for alumni to connect back to the University, to one another and to current students. It witnessed rounds of interactive sessions with current students and alumni.

Synergy - Synergy is the Annual Management Fest organized by students of MBA (IB) & MBA (HRD), Department of Commerce, Delhi School of Economics in the month of February 2020. It involves the sharpest management brains across the country participating in a plethora of events and competitions that encompass various domains of management education in the fields of International Business, HR, Marketing, Finance, Strategy and Consulting.

FACULTY OF EDUCATION DEPARTMENT OF EDUCATION

Major Activities and Academic Achievements

In the year ending 2019, 96 students got their B.Ed degree, 45 students got their M.Ed degree, 14 Scholars were awarded the M.Phil degree and 15 scholars were awarded the Ph.D. degree.

Under the aegis of the Institute of Advanced Studies in Education (IASE) scheme, sponsored by the Ministry of Human Resource Development of the Government of India, the Department faculty organized national level conferences, seminars, dialogues, symposia, faculty development programmes and workshops, in which there was wide participation from students, scholars and academics from across the country. The themes of these academic activities included: Diversity in Higher Education; Academic Research Writing; Quantitative and Qualitative Research; Philosophical research in Education; Diversity Pedagogy; Life Skills Education; Higher Education in India; Literature and Cinema, Draft NEP 2019; Pedagogy of History; Discourse of Psychology in Sanskrit Writings; Pedagogy and ICT for Inclusive Education and Innovation in Science and Mathematics Education.

The Department has been striving hard to improve the functioning of the Enabling Unit to support students with disabilities. A collection of Braille books in Social Science and recordings of readings and lectures on an ongoing basis are made available to them. 170 voice recordings of readings have also been done. The

Braille version of important books for students have been procured and made available. The Unit facilitates the procurement of scholarships and assistive devices for the students and provides counselling on a need basis.

The Department celebrated International Yoga Day on 21st June, 2019. There was a yoga expert who demonstrated different Asanas and Pranayam. He also gave tips on diet, lifestyle and how to be happy. Teaching and non-teaching staff participated actively.

The “Rashtriya Ekta Diwas” was observed on Thursday, 31st October 2019 in which a Pledge taking ceremony was held in the Conference Room of the Department. Students, teachers and non-teaching staff were all involved.

Our Departmental prides itself in having an up to date, user friendly website. It can be accessed by visually challenged students too.

The Department celebrated the 150th year of Gandhi’s Birth Anniversary by highlighting Gandhi’s philosophy and contribution to India. Mr Kumar Prashant, President, Gandhi Peace Foundation, delivered the Foundation Day Address on the theme ‘Hamey Jis Gandhi Ki Zaroorat Hai’ (‘The Gandhi We Need’) on 13th December 2019. He is a leading exponent of Gandhian thought and action. In the spirit of Gandhi’s philosophy, the Department included students and teachers from CIE Basic School in various activities. Many academic spaces, such as a Bulletin Board and Students’ Corner were created for this.

Professor Geetha B. Nambissan, a renowned scholar in Education, delivered the Basu Memorial Lecture on 26th February 2020. This is an annual event to commemorate Prof. A. N. Basu, the founder Principal of CIE. The theme of her lecture was ‘Caste and the Politics of Early ‘Public’ in Schooling: Reflections on the Dalit’s Struggle for an Equitable Education’; It was attended by a large number of alumni, students, scholars and teachers of the Faculty of Education.

The CIE library has a rich collection of books. 350 books were added to this. In addition, a Resource Centre for Elementary Education was set up for researchers, teachers and other practitioners in the field. It serves as a consultation and discussion space for all those who are interested in Elementary Education.

As a response to COVID-19, the Department constituted a Departmental COVID Committee to ensure physical safety, due care and maintenance of the campus, and positive mental health of all the students, faculty members, and non-teaching staff.

Honours/Distinctions

Kanvaria, V. K. (2019). Distinction and Top 4th Rank in Course on Sustainable Development in Business of Commonwealth of Learning and Open University of Mauritius, Mauritius.

Kanvaria, V. K. (2019). Distinction in Course on Digital Literacy of Open University, United Kingdom.

Kanvaria, V. K. (2019). Distinction in Course on Media and Information Literacy of UNESCO and National Open University of Nigeria, Nigeria

Publications

Books

Chennat, S. & Behari, A. (Ed.s) (2019). Disability inclusion and teacher education, Delhi: Shipra

Chennat, S. (Ed.) (2019). Disability inclusion and inclusive education, Singapore: SpringerAnjum, S. & Chhabra M. (2020). A Science Teacher's Journey. *Proceedings of International Conference on Changing*

Landscape of Teacher Education (ICCLTE 2020), Department of Educational Studies, Jamia Milia Islamia, New Delhi, India. (pp. 20-30) (ISBN:978-93-87916-71-5)

Articles/ Chapters

बैनीवाल, वि. (2019).जिद्दुकृष्णमूर्तीin शैक्षिकउन्मेष.केंद्रीयहिंदीसंस्थान, आगरा. 3(1). 64-72. ISSN: 2581-687X

Baniwal, V., Bhatia, A., Sawhney, A.K., Sandhu, M., & Mahajan, V. (2019). Exploring the Transformative Potential of Education. *Voices of Teachers and Teacher Educators*, 3(2), 28-36, Dec 2019. ISSN: 2455-1376. NCTE

Baniwal, V. (2019). Reconsidering Buber, educational technology, and the expansion of dialogic space. *AI & Soc.* 34(1). pp.121-127. ISSN: 1435-5655, <https://doi.org/10.1007/s00146-018-0859-z>

Chennat, S. (2019). Understanding disability and inclusion. In Chennat, S. & Behari, A. (Eds), *Disability inclusion and teacher education* (11-25). Delhi:Shipra.

Chennat, S. (2019). Locomotor impairment: Perspectives and concerns about inclusion. In Chennat, S. & Behari, A. (Eds), *Disability inclusion and teacher education* (87-104). Delhi:Shipra

Chennat, S. (2019). Disability studies: The context. In Chennat, S. (Ed), *Disability inclusion and inclusive education* (1-20). Singapore: Springer

Chennat, S. (2019). Sociology of disability. In Chennat, S. (Ed), *Disability inclusion and inclusive education* (21-38). Singapore: Springer

Chennat, S. (2019).Conceptualising disability inclusion. In Chennat, S. (Ed), *Disability inclusion and inclusive education* (39-62). Singapore: Springer

Chennat, S. (2019). Children with locomotor impairment: Enabling environment for inclusion, education and participation. In Chennat, S. (Ed), *Disability inclusion and inclusive education* (109-138). Singapore: Springer

Chhabra, M. & Das, R. (2020). Undergraduate Students' Mental Models of Electrostatic Potential. In K.K. Mashood, T. Sengupta, C. Ursekar, H. Raval & S. Dutta (Eds.), *Proceedings of epiSTEME 8*, 110-120. Singapore: Springer. (pp.455-462) (ISBN No: 9788194156796)

Dubey, V. & Kanvaria, V. K. (2020). ICT in higher education: Overcoming the challenges. In G.S. Latwal, S.K. Sharma, P. Mahajan & P. Kommers (Eds.) *Role of ICT in higher education* (411-422). Florida, USA: Apple Academic Press (Taylor and Francis Group), 9781771889629.

Gandhi, H. (2019). Developing acquaintance to mathematical dispositions via language. *Language and Language Teaching*. Special Issue of Literacy. Azim Premji Publications. 8(16).

Singh, P.K. & Gandhi, H. (2019). Engaging students with mathematics through story: A case of grade II students. *Voices of Teachers and Teacher Educators*. VIII(I). NCERT: New Delhi

Gandhi, H. and Garg R. (2020). शिक्षक / शिक्षिका शिक्षा कार्यक्रमो में विषय-शिक्षण सम्बन्धी मनोन्मुख।सम्पादक हृदय कांतदेवन, शिवानीनाग, मनोजकुमार, मनीषजैन (सं) अध्यापक, अध्यापन और अध्यापक शिक्षा: नीतियां, बहस और अनुभव. वाणी प्रकाशन और अजीम प्रेम जी यूनिवर्सिटी।pp-320-328.

Gandhi H, Sharma , Y. (2020). Mathematics and Science. Paper II. CTET book. Pearson Publication
Gandhi, H. and Mittal, R (2020). Using Structural formats of Lesson Plans as a mode to ascertain the underlying assumptions behind teaching. In A. masih, H.K. Bhatia, A.I. Ahmad (Eds). *Teacher Education: The Changing Landscape*. Vol 2. Jamia Millia Islamia, Delhi. Pp 72-81. India, ND.VL Media Solutions Publication.

Gupta, S.(2020). Understanding Socio-Psychological Attributes. In *Socio-Psychological Perspective in Education*, p.291-310.Indira Gandhi National Open University: New Delhi

Kanvaria, V. K. & Dubey V. (2020). English grammar mobile applications as teacher: A participatory quasi-experiment for learning, in A. Masih, H.K. Bhatia & A.I. Ahmad (Eds.) *Teacher education: The changing landscape (190-205)*. New Delhi: VL Media Solutions, 9789387916715.

Kanvaria, V. K. & Kumar, A. (2020). Peeping into anxiety and causes amongst secondary school students. *Gitarattan Journal of Education*, 25819518, 2(2), 69-87.

Kanvaria, V. K. & Kumar, S. (2019). Teacher education: Key issues and challenges in India. In S. Panda (Ed.) *Global dimensions of teacher education (13-27)*. New Delhi: Ankit Publications, 9789381234877.

Kanvaria, V. K. & Nagpal, B. (2019). New B.Ed. programme in India: A convergent parallel study on ICT-integration. *Brazilian Review of Open and Distance Learning*, 18061362, 18(1), 1-24.

Kanvaria, V. K. & Sharma, M. (2019). Contemporary Education in India: Issues, Loopholes and Measures, in S. Panda (Ed.) *Teacher education in India: Trends and strategies (61-80)*. New Delhi: Goel Publications, 9788194081913.

Kanvaria, V. K. (2019). Digital assessment practices in teacher education: Showcasing the digital plagiarism-check. *National Journal of Education*, 09729569, 14(1), 48-59.

Kanvaria, V. K. (2019). Edmodoing the concept attainment in mathematics and pedagogy: A participant observation exploratory study. *Journal of Labour and Education*, 25440179, 7, 89-108.

Kanvaria, V. K. (2019). Future of education: A vision from an educational technologist. In S. Rani (Ed.) *Future of education: An innovative approach in the technotronic era (18-25)*. Ghaziabad: Swaranjali Publication, 9789388838764.

Kanvaria, V. K. (2019). Vidyalayishikshakchayan: Kitnatarkikkitnasangat. *Research Reinforcement: A Peer Reviewed International Refereed Journal*, 23483857, 6(2), 1-5.

Kumar S. (2019). An evaluative study of the D.El.Ed. Programme in Himachal Pradesh, *Scholarly Research Journal For Interdisciplinary Studies (SRJIS)*, Vol-7/55,E- ISSN 2278 - 8808, SJIF2019-6.38, Pp13181-13192, www.srjis.com.

Negi S. & Kanvaria, V. K. (2019). *Cyber-bullying in schools: An exploration*. Delhi: Ansh Book International, 9788193446140

Niwas, R. (2019). सांख्य दर्शन. Review of Research international journal, 2249-894X, UGC Notification No.48514 page no 1-7.

Niwas, R. (2019). दर्शन व शिक्षा एक दूसरे के पूरक हैं, कैसे? Review of Research international journal, 2249-894X, UGC Notification No.48514 page no 1-11.

Parimala, D. (2020). *Higher education in South Asia: Challenges and possibilities*. Delhi: Kanishka Publisher.

Rai, G. (2020). Developmental Pattern in Early Childhood in the book titled, 'Anthology, Understanding Childhood, Adolescence and Diversity edited by Prof. Namita Ranganathan, Sage Publication, 2020.

Journals

Published by the Department- None

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board –

Baniwal, V. Editorial team of Indian Journal of School Health & Wellbeing.

Gandhi, H. - Editorial team of At Right Angles. A Mathematics Resource for Mathematics Teachers. Azim Premji University.

Research Projects

Baniwal, V. (2019). (Principal Investigator) Development of Self-Instructional Package for Teachers for Life-Skills Education for UNICEF-Room to Read collaboration. ₹11,86,800/-

Development of Mathematical temperament in Large-sized classrooms- A feed forward for Policy Makers. Two year major project funded under IMPRESS scheme of ICSSR (IMPRESS/P2706/241/2018-19/ICSSR)

Kanvaria, V. K. (Co-Project Director). ICSSR, New Delhi, 2 Years, Cyber-bullying of females at Indian higher education institutes: Exploration of status, issues, challenges and implementation of initiatives. Rs. 8.9 Lac.

Seminar Organized

Baniwal, V. (2020). Six-day National workshop-cum-seminar on 'Pursuing a Philosophical Study in Education', held at the Department of Education, University of Delhi, Concluded on February 15, 2020 under the aegis of IASE, Delhi University.

Chaudhary, P.R. (2020). Organised Three Day National Seminar cum Workshop on Innovations in Science and Mathematics Education on 15th, 22th and 29th February 2020 under the aegis of IASE, Delhi University.

Gupta, S.(2020).Organized a National Symposium on Perspective, Issues and Challenges in Higher Education, Feb 3, 2020, Department of education, University of Delhi.

Kumar, S. (2020).National Seminar on Innovations in Science and Mathematics Education organized under the Aegis of IASE 2019-2020 on dated: 15th February, 2020 at the Department of Education, University of Delhi.

Niwas, R. (2020). National Seminar Cum Workshop organized on History Pedagogy: Perspectives, Practices and Possibilities w.e.f. 14/02/2020 to 16/02/2020 (Under the aegis of IASE-MHRD).

Conference Organized

Parimala, D. (2020). Organized an International conference on Higher Education in South Asia: Challenges and Possibilities from December 2 to 5, 2019 funded by University of Delhi and Indian Council of Social Science Research (ICSSR).

Webinar/ Seminar / Conference Presentations (National/International)

Baniwal, V. (22/02/2020). *Paper Publication Process*. At FDP-cum-Seminar 2019-20. Department of Education, University of Delhi.

Chaudhary, P.R. (2020). *Inclusive Teaching Learning Resources for Teaching Science: Stepping Forward to Inclusion in Science*. The International Conference on Inclusive Education: Present Perspectives and Future Prospects held on 21st -23rd January, 2020 at CASE, FEP, MSU, Vadodara.

Chennat, S. (2020). Participated as one of the Speakers on 10th September, 2020, on invitation by NIEPID, (National Institute for the Empowerment of Persons with Intellectual Disability (Divyang)) Regional Centre, Kolkata at the 2 Day National Webinar on 'NEP 2020- Regular and Special Educators' Perspectives on Inclusive Education of Students with Disabilities', held on 10th and 11th of September, 2020. Was also one of the panellists on 10th September.

Kanvaria, V. K. (06/04/2019). Academic writing: What and why. National Conference on Academic Writing. GCE, Koderma, Jharkhand.

Kanvaria, V. K. (06/04/2019). Anti-plagiarism as an ethical practice in education. National Seminar on Ethical Practices in Education. GCE, Koderma, Jharkhand.

Kanvaria, V. K. (Co-author) (08/08/2019). Future of democracy in the Indian classrooms through design thinking. World Education Research Association 2019: Focal Meeting, Gakushuin University, Tokyo, Japan.

Kanvaria, V. K. (19/09/2019). Empowering teachers and educators through education 4.0. National Seminar on Teacher Education in India: New Vistas-New Challenges. AIE, Greater Noida, UP.

Kanvaria, V. K. (05/10/2019). Technology, teacher education curriculum and 21st century learners: A conundrum. National Seminar on Technology, Teacher Education Curriculum and 21st Century Learners: A Conundrum. KCE, Rewari, Haryana.

Kanvaria, V. K. (20/11/2019). Connecting pre-service teachers for co-operative and collaborative learning through a blend of web tools and offline tools. The 2019 Global Education Conference. Global Education Conference Network, USA.

Kanvaria, V. K. (Co-author) (10/01/2020). Women, media and technology: A perspective for empowerment. International Conference on Through a New Looking Glass: Challenges for Women in the 21st Century. SLC, Delhi.

Kanvaria, V. K. (Co-author) (14/02/2020). ICT in Higher Education: Overcoming the challenges. International Conference on Role of ICT in Higher Education: Trends, Problems and Prospects. IITM, Delhi.

Kanvaria, V. K. (Co-author) (15/02/2020). An analytical understanding on teaching-learning with technology in mathematical teaching-learning space. National Seminar on Innovations in Science and Mathematics Education. DU, Delhi.

Kanvaria, V. K. (19/02/2020). Enriching higher education with social media. National Seminar on Social Media and Education: Challenges and Opportunities. BCMCE, Ludhiana, Punjab.

Kanvaria, V. K. (29/02/2020). Research writing and ethico-legal issues in education. National Conference on Research Writing and Ethico-legal Issues in Education. RBSCE, Rewari, Haryana.

Kanvaria, V. K. (Co-author) (04/03/2020). English grammar mobile applications as teacher: A participatory quasi-experiment for learning. International Conference on Changing Landscape of Teacher Education. JMI, New Delhi.

Niwas, R. (2020). 'प्रकृतिकेन्द्रितशिक्षाऔरसमाज' on 29/02/2020 in Seminar Organized by Hindu College, Amritsar sponsored by Indian Counsel of Philosophical Researches (ICPR), Delhi

Parimala, D. (2020). "Comparative Education Discourse Towards a New International Education Strategy for Canada and India" at an International Conference organized from November 13-16, 2019 at Montreal, Quebec, Canada, funded by University of Delhi.

Placement Details

Managed by the Central Placement Cell of DU

Extension and Outreach Activities

Yoga, Heritage Walks and Music for B.Ed. and M.Ed. students

Number of Ph.D. / M.Phil. Degree Awarded

Ph.D. : 15

M.Phil. : 14

Faculty Strength

Professor - 09

Associate Professor - 02

Assistant Professor - 26

Other Significant Information

The department has its own website <http://www.doe.du.ac.in> which is updated almost every day. The website is visually and hearing challenged-friendly and maintained by a highly dedicated team. It is highly enriched with the information bearing the titles Home, About Us, Faculty, Academics, Students, Scholars, Colloquium/Viva, Admissions, IQAC, Resources, CIE Staff, CIE Alumni Website, Honour Board, Infrastructure & Facilities, Useful University Links, Useful Web Links, Annual Report, Special Web Resources for Visually & Hearing Challenged, Anti-Ragging, Anti Smoking, SC/ST/OBC Grievance Cell, Students' Grievance Redressal and North East Student Grievance and Contact Us. The website is explored regularly by all the students, constituent colleges and faculty members. The department has a vigilant Anti-ragging cell as per UGC guidelines. The department also maintains a school attached with it, namely CIE Experimental Basic School which works under direct guidance and supervision of the departmental authority. The school has a very optimal teacher-student ratio especially as compared to other schools in Delhi.

The Resource Centre for Elementary Education has a rich collection of books, reports and policy documents. It also has Science Models based on STEM technology for pedagogic use in schools.

*All the information is as per data provided by the office and faculty members.

FACULTY OF HOMOEOPATHIC MEDICINE

Introduction

The Faculty of Homeopathic Medicine has one college affiliated at the moment. Nehru Homoeopathic Medical College & Hospital. This is one of the premier and reputed Homoeopathic Medical College of India. The College is affiliated to University of Delhi for award of (BHMS) Bachelor of Homoeopathic Medicine Degree since 1992. The Post-graduate course has started in two subjects since 2009. Apart from these two courses the University has granted one more MD courses in the field of Materia Medica with intake capacity of three seats in 2018.

NEHRU HOMEOPATHIC MEDICAL COLLEGE

Major Activities and Achievements

Nehru Homoeopathic Medical College & Hospital under GNCT of Delhi, is affiliated to University of Delhi since 1992 and is imparting 5 and 1/2 years undergraduate course viz. Bachelor of Homoeopathic Medicine and Surgery (B.H.M.S.), and 3 year Post Graduate course from 2009, viz. M.D. (Homoeopathy) in two subjects of Practice of Medicine and Organon of Medicine for 02 seats in each subject and 3 seats in Materia Medica from 2018-19 session. The college is recognized by (CCH) Central Council of Homoeopathy and is regulated by Guidelines of CCH.

This Institution has a 100 bedded attached hospital with its college that provides medical care facilities where a fully functional Outpatients (OPD) and Inpatients (IPD) is catering to large number of patients. In the field of research, a number of Research Projects are also being conducted in NHMC OPD.

The hospital is also running IPD services in which patients are provided Homoeopathic treatment with standardized case records and diagnostic facilities. The patients are under care of senior faculty members who have been allotted units with a team of faculty and junior residents for adequate individual patient care/day care unit is also functional in IPD. The services of Dietician and Yoga instructor have also been made available for the benefit of patients. It is matter of pride that NHMC & Hospital served as COVID Health Centre for management of mild to moderate COVID patients in South east district.

Family planning services including Copper T, Multiload insertions, newer contraceptives like injectable contraceptive Inj Antara etc are made available to the patients. Screening for Cervical Cancers by PAP smear and breast cancer is also done. Beside this MTP, D&C, D&E, Polypectomy is done as per patients need. There is also availability of drugs for Medical Abortion.

Further the institute is also participating actively in National Health Programs such as Pulse Polio immunization program and mainstreaming of AYUSH with the Family welfare services. International Yoga day celebrations were carried out in the Institute on International Yoga Day.

For the purpose of time to time enhancement of professional knowledge of faculty and students and regular updation of the standards of education and health delivery, regular clinical meets are conducted in the institute.

NHMC & Hospital received Commendation award for Kayakalp assessment under Swachta Abhiyan Mission conferred on NHMC & Hospital in September, 2019. Besides this, visit of Foreign dignitaries such as British MP, Mr. David Tredinnick, Afghanistan Homoeopathic Association President, Mr. Obaid Hashmi were also organized.

Honors/Distinctions

Dr. George Mathew, Reader, Department of Materia Medica, presented paper in the International Conference on Integrative Oncology which was awarded the 2nd prize among the 40 oral research presentations made in the Conference, from among all the AYUSH systems in India & Abroad, fundamental research and Conventional Medicine.

Publications

Neeraj Gupta, RK Saxena, Rahul Singh, July 2019, Clinical Evaluation of Homoeopathic Medicines in Benign Prostatic Hyperplasia, Homoeopathic Links, Theime, <https://doi.org/10.1055/s-0039-1693154>/ISSN 1019-2050.

Bipin Jethani, November 2019 'Understanding role of Homoeopathy in PCOS through Clinical case studies, Homoeo Samanvay Souvenir, 12-16.

Dr. Mohit Mathur, April 2019, An overview of the advantage of linking homoeopathy education with research. Souvenir of Scientific convention on World Homoeopathy Day.

Dr. Abdul Motin Molla, Reader NFSG, 'Evaluation of the Modified Naranjo Criteria for Assessing Casual Attribution of Clinical Outcome to Homoeopathy Intervention as Presented in Case reports' Homoeopathy, 2020 Mar 25. Doi: 10.1055/s-0040-1701251. Epub ahead of print. PMID: 32215892

Research Projects

In the field of research, a number of Research projects are also being conducted in NHMC OPD in which emphasis is to establish clinical efficacy of homoeopathic treatment in varied medical conditions such as Psoriasis, Pediatrics, Arthritis, Gall stones, Vitiligo etc.

Seminar Organized

Forensic symposium was organized by the department of FMT at NHMC on 8th November 2019.

Conference Organized

Various conferences were organized in March 2020 by Dr. Thankaraj B., Nodal Officer, COVID-19 CHC, on Clinical management Guideline for COVID-19, Standard Operating Procedures for Nursing officers and support staff, BMW Management and IPC Protocol.

Seminars/Conferences Presentation (National/International)

Dr. Neeraj Gupta, Professor, Department of Organon of Medicine presented as Resource person in the CME organized by Ministry of AYUSH, at NIH, Kolkata in the subject of Organon of Medicine (Module-1) on the topic 'Homoeopathic Philosophy & Materia Medica' on 13 June 2019.

Dr. George Mathew, Reader, Department of Materia Medica, presented a paper on "Neuroblastoma stage IV with multiple hepatic metastases in a 5 month old and its complete remission through Homoeopathic treatment: A case report" in the International Conference on Integrative Oncology – ICIO 2020 organized by the Global Homoeopathy Foundation (GHF) at the Le Meridien, Kochi, Kerala on February 8th and 9th 2020.

Dr. Bipin Jethani, Reader, Department of Organon of Medicine, delivered presentation as Keynote Speaker in Training program on 'Traditional Medicine- Modern Approaches for Affordable and Accessible Healthcare', sponsored by Department of Science and Technology, GOI at Amity University Noida on 11th February, 2020.

Dr. Sanjay Pandey, Reader, Department of repertory, delivered lecture on 'Combination of Mental Symptoms in the light of Knerr Repertory' on 15th December, 2019 in 25th National Homoeopathic Conference organized by Research Society of Homoeopathy.

Dr. Mohit Mathur, Reader, Department of Practise of Medicine presented paper on 'An Evidence Based Case Study of Homoeopathic Management of Peripheral Vascular Diseases in In-patient Department' in WORLD AYUSH EXPO, Mumbai, August 2019.

Dr. Mohit Mathur, Reader, Department of Practise of Medicine presented Homeopathic perspective to Oncology in National Symposium on "Multidisciplinary Approach to Oncology" organized at Ch. Brahm Prakash Ayurved Charak Sansthan on 17th June, 2019.

Faculty Strength

Permanent - 24

Guest - 12

FACULTY OF INTERDISCIPLINARY AND APPLIED SCIENCES

DEPARTMENT OF BIOCHEMISTRY

1. Major Activities and Achievements

The Department successfully completed the third year of the UGC-SAP programme in the area of development of molecular strategies to combat various human diseases. Several national and international experts were invited in the department for interaction with students / research scholars and deliver scientific talks. Rashtriya Ekta Diwas (National Unity Day) was celebrated on 31st October 2019. Many student activities were organized round the year in form of Fresher welcome, Diwali, Sports Day etc. The department also organized an International Conference on "Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases" with Shivaji College on 12th -13th February, 2020. During the challenging time of Corona pandemic, the department continued its teaching-learning activities through online platforms. Department website was strengthened for students by uploading relevant teaching materials. Faculties were engaged in high-end research related to various human diseases related to oncogenesis, malaria, cardiovascular disorders, tuberculosis, leishmaniasis and targeted gene/drug delivery systems.

2. Honours / Distinctions

Faculty

Distinguished Service Award for Retired Teachers to Professor Anil K. Tyagi, 97th Foundation Day, May 1, 2019

Professor Debi P. Sarkar: Appointed as Advisory Board Member of TERI, New Delhi from November 2019 till December 2020

Professor Debi P. Sarkar - Elected as General Editorial Member for Human Gene Therapy (HGT) Journal by Dr. Terry Flottle, Editor-In-Chief of HGT, UMass Medical School, USA

Professor Suman Kundu - Expert Reviewer of “Dare to Dream” scheme of project proposals, Defence Research & Development Organisation (DRDO), Government of India, Ministry of Defence (July 2019).

Professor Suman Kundu: Chaired a session on “Theme: Biochemistry” in the XV J-NOST 2019 conference (Junior - National Organic Symposium Trust) organized by Department of Chemistry, University of Delhi, Delhi, India in Conference Centre, 18th – 21st October, 2019.

3. Publications

- 1) Agrawal, D.C., Yadav, A., Khan, M.A., Kundu, S.* and Kayastha, A.M.* (2020). Denaturant induced equilibrium unfolding and conformational transitional studies of germinated fenugreek β -amylase revealed molten globule like state at low pH, *Protein and Peptide Letters*. 2020, 27, 1-12 (March 2020) (*joint corresponding author)
- 2) Chandra, S., Kumar, M., Sharma, N.R. and Sarkar, D.P. (2019). Site-specific phosphorylation of villin remodels the actin cytoskeleton to regulate Sendai viral glycoprotein mediated membrane fusion. *FEBS Letters* 593 (2019) 1927–1994
- 3) Kaur, S., Nag, A. Gangenahalli, G., Kulbhushan, G. and Sharma, K. (2019). “Peroxisome Proliferator Activated Receptor Gamma (PPARG) Sensitizes Non-Small Cell Lung Carcinoma to Gamma Irradiation Induced Apoptosis”. *Frontiers of Genetics – section: Stem cell Research*. (<https://doi.org/10.3389/fgene.2019.00554>).
- 4) Singh, S., Goswami, N., Tyagi, A.K. and Khare, G. (2019) Unraveling the role of the transcriptional regulator VirS in low pH-induced responses of *Mycobacterium tuberculosis* and identification of VirS inhibitors. *Journal of Biological Chemistry*. 294(26) 10055-10075. ***An illustration summarizing the work has been selected as cover figure for the journal issue.***
- 5) Vaibhav, C., Cheema, P.C. Atri, Y. Nandi, D., Sharma, P., Jaiswal, N., John, R., Aggarwal, S. and Nag, A. (2019). Identification of novel interaction between Promyelocytic Leukemia protein and human Alteration/Deficiency in Activation 3 coactivator and its role in DNA damage response. *Journal of Proteins and Proteomics*, 10(3): 207-220.

4. Journals

Two teachers (Prof. Suman Kundu and Prof. Alo Nag) served as Editorial Board Members and one of them (Prof. Suman Kundu) is serving as Editor-in-Chief of *Journal of Proteins and Proteomics* (A journal of the Proteomics Society, India)

5. Research Projects (03)

- 1) Faculty members of the department received a total grant of Rs.13,47,029 as UGC-SAP II grant for department project during 2019-20.
- 2) Professor Suman Kundu: Research project titled, “Understanding the structure of Leishmania major Phosphopantetheinyl Transferase (Lmj PPTase) and its interaction with cognate ACP” UGC-DAE Consortium for Scientific Research, 23rd May 2019 to 22nd May 2020, Rs.2,63,400.
- 3) Dr. Garima Khare: Research Project titled, “Targeting dormant *Mycobacterium tuberculosis* in Bone Marrow Mesenchymal Stem Cells by inhibiting ABCG2 efflux pumps”, SERB, DST, Nov 2019- Oct 2022, for Rs.47.63 lacs.

6. Patents Filed / Granted

- 1) “Novel anti-malarial liposomal formulation”, Prahlad Chandra Ghosh, Alo Nag, Mohsin Raza, Aakriti Singal and Hina Bharti, submitted (ID 201711016131), Complete Indian patent filed on February 15, 2018. Form 16 and examination fee was submitted on February 06, 2019. First examination report came in January 2020.
- 2) “Novel Anti-hypertensive and Anti-Cardiac Hypertrophic Compounds”, Suman Kundu, B.K. Thelma, Subir Kumar Maulik, Pankaj Prabhakar, Sanjay Kumar Dey), Final Indian Patent submitted (ID 201711036983), October 16, 2018; Abstract of Patent published on page number 25766 in the journal number 25/2019 on 21/06/2019.

7. Conferences organized

Organized International Conference on “Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases” by Department of Biochemistry of Shivaji College & South Campus, University of Delhi at Shivaji College Auditorium, Raja Garden, Delhi, February 12th -13th, 2020 (Convener: Dr. Suman Kundu & Dr. Rashmi Wardhan).

8. National / International MoU signed

9. Other Inter-institutional Collaboration

- 1) Prof. Suman Kundu: Collaboration with Prof. Bisnu Prasad Dash, Fakir Mohan University, Balasore, Odisha on Sickle Cell Diseases
- 2) Prof. Alo Nag: Collaboration with Dr. Agam Singh, National Institute of Immunology, New Delhi on Malaria Research.

10. Students under Exchange Programme

11. Placement details (Number and percentage of students placed)

05 M.Sc. students opted for higher education and 01 student opted for research related job.

12. Extension and Outreach Activities

Professor Alo Nag joined (6th December 2019) as a Mentor in Sashakt Program of Dr. Reddy’s Foundation to support and encourage young undergraduate girls who against all odds have got admissions in one of the leading science colleges in the country.

13. Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 02 (Two)

M.Phil.: --

14. Faculty strength

Total: 06 (Six) - (Professor – 04, Associate Professor – 01 and Assistant Professor – 01)

DEPARTMENT OF BIOPHYSICS

1. Major Activities and Achievements

Prof. Subhendu Ghosh (superannuated on 29-Feb-2020) was working on Membrane Biophysics, Ion Channels and Neuro-biophysics. The experiments involved electro-physiological methods, e.g. single-

channel recording, patch-clamp. A special emphasis was given on learning, memory (cognition) and mathematical & computational neuroscience. Dr. Manisha Goel (Assistant Professor) works on crystallographic structure determination and Bioinformatics. Her laboratory is working on functional and structural characterization of various archaeal chaperones. Dr. Manish Kumar's lab is interested in understanding the principles governing protein sequence-structure-function correlation, genome annotation, evolution of antibiotic resistance and host-pathogen interaction in microbes.

2. Honours/Distinctions: None

3. Publications

The faculty members of the Department published a total of 15 research papers during Ac. Yr. 2019-20. List of publications is as follows:

- 1) Kaushik V, Prasad S, Goel M. (2019) biophysical and biochemical characterization of a thermostable archaeal cyclophilin from *Methanobrevibacter ruminantium*. *Int J Biol Macromol.* 139:139-152.
- 2) Garg A, Singhal N, Kumar R, Kumar M. mRNA_{Loc}: a novel machine-learning based in-silico tool to predict mRNA subcellular localization. *Nucleic Acids Res.* 2020 Jul 2;48(W1):W239-W243. doi: 10.1093/nar/gkaa385.
- 3) Singhal N, Pandey D, Singh NS, Kumar M, Viridi JS. Exploring the genetic determinants underlying the differential production of an inducible chromosomal cephalosporinase - BlaB in *Yersinia enterocolitica* biotypes 1A, 1B, 2 and 4. *Sci Rep.* 2020 Jun 23;10(1):10167. doi: 10.1038/s41598-020-67174-4.
- 4) Pandey D, Kumari B, Singhal N, Kumar M. BacEffluxPred: A two-tier system to predict and categorize bacterial efflux mediated antibiotic resistance proteins. *Sci Rep.* 2020 Jun 9;10(1):9287. doi: 10.1038/s41598-020-65981-3.
- 5) Singhal N, Sharma A, Kumari S, Garg A, Rai R, Singh N, Kumar M, Goel M. Biophysical and Biochemical Characterization of Nascent Polypeptide-Associated Complex of *Picrophilus torridus* and Elucidation of Its Interacting Partners. *Front Microbiol.* 2020;11:915. doi: 10.3389/fmicb.2020.00915. eCollection 2020.
- 6) Singhal N, Sharma D, Kumar M, Bisht D, Viridi JS. Comparative Proteomics of Commensal and Pathogenic Strains of *Escherichia coli*. *Protein Pept Lett.* 2020 May 16;. doi: 10.2174/0929866527666200517104154.
- 7) Aswal M, Garg A, Singhal N, Kumar M. Comparative in-silico proteomic analysis discerns potential granuloma proteins of *Yersinia pseudotuberculosis*. *Sci Rep.* 2020 Feb 20;10(1):3036. doi: 10.1038/s41598-020-59924-1.
- 8) Sharma D, Garg A, Kumar M, Rashid F, Khan AU. Down-Regulation of Flagellar, Fimbriae, and Pili Proteins in Carbapenem-Resistant *Klebsiella pneumoniae* (NDM-4) Clinical Isolates: A Novel Linkage to Drug Resistance. *Front Microbiol.* 2019;10:2865. doi: 10.3389/fmicb.2019.02865. eCollection 2019.
- 9) Kumari B, Kumar R, Kumar M. Identifying residues that determine palmitoylation using association rule mining. *Bioinformatics.* 2019 Sep 1;35(17):2887-2890. doi: 10.1093/bioinformatics/btz003.
- 10) Garg A, Kumari B, Singhal N, Kumar M. Using molecular-mimicry-inducing pathways of pathogens as novel drug targets. *Drug Discov Today.* 2019 Sep;24(9):1943-1952. doi: 10.1016/j.drudis.2018.10.010. Epub 2018 Oct 23.
- 11) Singhal N, Maurya AK, Mohanty S, Kumar M, Viridi JS. Evaluation of Bile Salt Hydrolases, Cholesterol-Lowering Capabilities, and Probiotic Potential of *Enterococcus faecium* Isolated From Rhizosphere. *Front Microbiol.* 2019;10:1567. doi: 10.3389/fmicb.2019.01567. eCollection 2019.

- 12) Malik, C. & Ghosh, S. (2020). Quinidine Partially Blocks Mitochondrial Voltage-Dependent Anion Channel (VDAC). *Eur. Biophys. J.* 49, 193-205.
- 13) Talukdar, S., Shrivastava, R. & Ghosh, S. (2019). Modeling Activity Dependent Reduction in After hyper-polarization with Hodgkin Huxley Equation of Action Potential. *Biomed. Phys. Eng. Express* 5, 047001.
- 14) Talukdar, S. & Ghosh, S. (2019). Tackling Racial Prejudice with Music: A Perspective. *Omni Science*, 9(3), 12-14.
- 15) Debajit Dey, Shumaila Iqbal Siddiqui, Sukanya Ghosh, Prabhudutta Mamidi, Chandra Shekhar Kumar, Soma Chattopadhyay, Subhendu Ghosh & Manidipa Banerjee (2019) The effect of amantadine on a ion channel protein from Chikungunya virus *PLoS Neglected Disease*, 13 (7), e0007548, 1-22.

4. Journals:

Dr. Manish Kumar

Editorial Board Member: *Scientific Reports*, *Frontiers in Genetics* (Section Bioinformatics, Computational Biology)

Dr. Manisha Goel

Editorial Board Member: *Frontiers in Genetics* (Section Bioinformatics, Computational Biology)

5. Research Projects

- 1) Accelerating drug discovery path by delineating the structural differences leading to functional divergence in virulence factor proteins found in pathogenic bacteria (ICMR funded), July 2019-June, 2022.
- 2) Unfolded Protein Response: Achilles heels of fungal pathogenesis (Science & Engineering Research Board, Feb 2019 to Feb 2022).
- 3) Genome mining of *Pichia pastoris* for the development of yeast cell surface display technology using its native cell wall anchoring proteins: bioprocess optimization and its biotechnological applications (Science & Engineering Research Board, Feb 2019 to Feb 2022)

11. Other Inter Institutional Collaboration

Prof. Subhendu Ghosh has collaboration with IIT Bombay (Deptt. of Bioscience & Bioengineering), IIT Madras (Deptt. of Biotechnology), IIT Delhi (School of Biological Sciences) with joint Project Grant from DBT.

12. Students under Exchange Programme

Sh. Rajan Shrivastava, Ph. D. student registered with Prof. Subhendu Ghosh, visited UCL Ear Institute, University College of London, as part of collaborative work from 22nd January to 10th February, 2020. Financial support was provided by UCL Global Engagement Fund.

15. M. Phil./ Ph. D. Awarded

M.Phil awarded: 0

Ph.D awarded: 0

16. Faculty Strength: Permanent: 2

17. Other Significant Information

Prof. Jonathan Ashmore, Professor, Department of Physiology & Neuroscience, Ear Institute, University College of London, visited the department from 25th - 30th September, 2019 as part of Yusuf Hameid-Royal Society of London award.

Ms. Deeksha Pandey has attended Wellcome Genome Campus Course on Antimicrobial Resistance in Bacterial Pathogens, in Hanoi, Vietnam – (29th September - 4th October, 2019)

DEPARTMENT OF ELECTRONIC SCIENCE

1. Major activities and achievements:

The faculty members are actively engaged in research as well as supervision of research leading to the Ph.D degree in the field of optical electronics, semiconductors, microwaves and microelectronics. The Department has national and international collaborations and several research projects funded by the CSIR, DRDO etc.

Apart from this, the Department organizes seminars, lectures and talks on a regular basis and an educational tour to visit Defense Electronics Application Laboratory (DEAL) Dehradun in March 2020.

2. Honours/ Distinctions: 01

Prof. Mridula Gupa listed in Top 50 Research Guides across India in 2019 by Ulektz Wall of Fame

Best paper awards

3. Publications (Total number): 19

- 1) Trivedi N., Kumar M., Haldar S., Deswal S. S., Gupta M. and Gupta R. S. (2019) Interface Traps Dependent Linearity Assessment in Single and Dual Metal Gate Junctionless Accumulation Mode (Surrounding Gate) Nanowire MOSFET” *Journal of Applied Physics A* (Springer), 352, 1-10 DOI: 10.1007/s00339-019-2647-0.
- 2) Dubey A., Narang R., Saxena M., Gupta M. (2019) Investigation of total ionizing dose effect on SOI tunnel FET. *Superlattices and Microstructures*, 133, 106186, doi: 10.1016/j.spmi.2019.106186
- 3) Sharma M., Narang R., Saxena M., Gupta M., (2019). Comparative study of InGaN and InGaAs based Dopingless TFET with different Gate Engineering Techniques. *Advances in Natural Sciences: Nanoscience and Nanotechnology*. 10(3), 035009(8pp), DOI: 10.1088/2043-6254/ab38b1.
- 4) Neha, Kumari V. Gupta M. and Saxena M. (2019). Temperature based analysis of 3-step field plate AlGaN/GaN HEMT using numerical simulation. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 10 (4), 045006 (7pp), DOI: 10.1088/2043-6254/ab4803
- 5) Preeti, Kumari V., Saxena M. and Gupta M. (2019) TCAD Based Assessment of Dual-Gate MISHEMT with Sapphire, SiC and Silicon Substrate. *IETE Technical Review*, 1-9, DOI: 10.1080/02564602.2019.1699455
- 6) Kumari V., Saxena M. and Gupta M. (2020) Sensitivity Assessment of RingFET Architecture for the Detection of Gas Molecules: Numerical Investigation. *IETE Technical Review*, 1-9, DOI: 10.1080/02564602.2020.1726830
- 7) Bansal, M. & Kaur H. (2019). Analysis of Negative-Capacitance Germanium FinFET With the Presence of Fixed Trap Charges. *IEEE Transactions on Electron Devices*, 66, no. 4, 1979-1984.

- 8) Mehta, H., & Kaur, H. (2019). Subthreshold Analytical Model for Dual-Material Double Gate Ferroelectric Field Effect Transistor (DMGFET). *Semiconductor Science and Technology*, 34, no. 6, 065008.
- 9) Mehta, H., & Kaur, H. (2019). Study on Impact of Parasitic Capacitance on Performance of Graded Channel Negative Capacitance SOI FET at High Temperature, *IEEE Transactions on Electron Devices*, 66, no. 7, 2904-2909.
- 10) Mehta, H., & Kaur, H. (2019). Performance Assessment of Symmetric Double Gate Negative Capacitance Junctionless Transistor with High-k Spacer at Elevated Temperatures, *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 10, 035013
- 11) Bansal, M. & Kaur H. (2020). Device and Circuit Level Analysis of Negative Capacitance Hybrid CMOS: A Prospect for Low Power/Low Voltage Applications, *Semiconductor Science and Technology*, 35, no. 1, 015014
- 12) Pandey, P., & Kaur, H. (2020). Improved Temperature Resilience and Device Performance of Negative Capacitance Reconfigurable Field Effect Transistors, *IEEE Transactions on Electron Devices*, 67, no. 2, 738-744.
- 13) Patel, K., Singh, P., Patel, S.M. et al. (2020). Modified Calibration Coefficients of Two-Port CPW Standards with Superstrate Effects. *MAPAN-Journal of Metrology Society of India*, 35, 87–96
- 14) Park, B. –G., Maddaka, R., Nguyen, T. K. P., Peta, K. R., Noh, Y. –K., Oh, J. –E. and Kim, M. –D. (2019), Effects of reduced internal electric field in InGaN/pseudo-AlInGaN multi-quantum-well on forward leakage current and photocurrent properties. *Journal of Applied Physics*, 126(4), 0457031.
- 15) S. Ramu, T Chandrakalavathi, G. Murali, K. Sunil Kumar, A. Sudharani, M. Ramanadha, Peta, K. R., R Jeyalakshmi and R. P. Vijayalakshmi. (2019), UV enhanced NO gas sensing properties of the MoS₂ monolayer gas sensor. *Materials Research Express*, 6(8).
- 16) Birwal, A., Manker, N. K., Patel, K. (2020). Compact Printed Log-Periodic Dipole Antenna (LPDA) With T-Shaped Arm For Wide Band Applications, *Indian Journal of Pure & Applied Physics*, 58, 16-23.
- 17) Birwal, A., Singh, S., Kanaujia, B. K., & Kumar, S. (2019). Broadband CPW-fed circularly polarized antenna for IoT-based navigation system. *International Journal of Microwave and Wireless Technologies*, 11(8), 835-843.
- 18) Birwal, A., Singh, S., Kanaujia, B. K., & Kumar, S. (2019). CPW-fed ultra-wideband dual-sense circularly polarized slot antenna. *Progress In Electromagnetics Research*, 94, 219-231.
- 19) Birwal, A., Manker, N. K., & Patel, K. (2020). Compact printed log-periodic dipole antenna (LPDA) with T-shaped arm for wide band applications. *Indian Journal of Pure & Applied Physics (IJPAP)*, 58(01), 16-23.

Books/Monographs (Authored/Edited): 01

20) Co-authored a Chapter entitled “**Current collapse in AlGaIn/GaN HEMTS**” First Edition, May 2019, in Handbook for III-V High Electron Mobility Transistor Technologies, CRC Press, Taylor & Francis Group. DOI: <https://doi.org/10.1201/9780429460043>, eBook ISBN- 9780429460043

4. Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board - 01

Dr Kamlesh Patel - Associate Editor, MAPAN-Journal of Metrology Society of India

5. Research Projects

- 1) **CSIR** funded project entitled “Modeling and Simulation of Gate Electrode Engineered and Dielectric Pocket steep Sub-threshold Swing Device for Low Power Digital Circuit Design and Optical Applications”. **Amount 25 Lacs**
- 2) **DRDO (SSPL)** funded project entitled “Device Simulation for Thermal management of High power GaN HEMT”. **Amount: 23.02 Lacs**

6. Students under Exchanged Programme – 01

Nikhil Dhingra was selected for Shastri Student Research Fellowship in doctoral Category by Shastri Indo-Canadian Institute to carry out a short-term research project at University of Ottawa, Ontario, Canada. As part of this fellowship, he has been working on a remote project named “Parity-Time symmetry and its applications in modulation and sensing”.

7. Placement Details

Number and percentage of students placed – NIL

Number of companies visited for campus recruitment: NIL

8. 14. Extension and Outreach Activities -02

- Educational tour to Defence Electronics Application Laboratory (DEAL) Dehradun in March 2020.

9. Numbers of M.Phil./Ph.D Degrees Awarded - SEVEN (07)

10. Faculty Strength – FIVE (05)

11. Other Significant Information

Prof. Mridula Gupta

Chairman - IEEE-EDS Delhi Chapter 2011-2016 & from **2019- till date**

Excom Member of Women In Engineering (WIE) IEEE Delhi Section Affinity Group, 2019-till date.

Dr. Harsupreet Kaur

Dr. Harsupreet Kaur – Secretary – IEEE EDS Delhi Chapter from Jan 2020 till date.

DEPARTMENT OF GENETICS

1. Major activities and achievements

The faculty members of the department of genetics have made notable scientific contributions. Research work from Prof. A. K. Pradhan’s group led to the development of CMS-based and GM-based productive hybrids, several pure lines with improved quality and white rust resistance and identification of some promising combiners for heterosis breeding, and sequencing of brassica genome. Research highlights from Thelma lab include i) providing the first ever exome-wide mutation spectrum in known genes for Mendelian forms of Parkinson’s disease; ii) demonstration of hypomorphic effect of a deep intronic variant in CENPJ in Seckel syndrome; iii) providing genetic evidence for cumulative contribution of genes of minor effect in schizophrenia; and iv) design and development of novel inhibitory molecules for two candidate proteins for rheumatoid arthritis. Prof. M.V Rajam’s work has led to the identification and characterization of several novel genes involved in viral and fungal pathogenesis in tomato; and metamorphosis of insect pests of tomato, brinjal and cauliflower, and using RNAi-mediated silencing of these genes, they have demonstrated their potential for crop protection. Prof. P.K Burma’s group has analyzed tapetum specific promoter A9 from Arabidopsis thaliana, which led to the identification of

transcription factors involved in regulation of promoter. Dr. S. Sarkar group has demonstrated the novel insights about the pathogenesis of human neurodegenerative disorders and discovered several novel drug targets to restrict the disease development. Dr. Sarkar's group has also demonstrated the essential role(s) of globin gene in development of nervous system. Dr. Jagreet Kaur's group have used set of geographically diverse *Arabidopsis* accessions (140 accessions) to uncover the genetic architecture underlying resistance to *Alternaria brassicae*, which can potentially help in developing resistant crops. Dr. Tapasya Srivastava's group have demonstrated a role of TET proteins in regulating cancer stem cell formation of glioma cells in hypoxia, and established SNP rs16969968 as a strong predictor of nicotine dependence and lung cancer risk in our north Indian cohort, in complete contrast with those of Asian countries. Dr. Aruns Devi Naorem's group is working towards understanding the role of prolyl isomerization by Parvulins, and reported that PinA, a *D. discoideum* homolog of *S. cerevisiae* Ess1 is important for growth and development. Dr. Kaustuv Datta's group has identified novel GTPase in the mitochondrial ribosomes which potentially respond to changes in ATP/ADP ratio and regulate cellular ability to perform respiratory functions.

2. Honours/Distinctions (2019-20)

Dr Tapasya Srivastava is serving as a Member, Institutional Ethics Committee, CCRH, Ministry of Ayush.

Dr Tapasya Srivastava is serving as a Member, Institutional Committee for Stem Cell Research, NII

3. Publications

- 1) Harper, Andrea; He, Zhesi; Langer, Swen; Havlickova, Lenka; Wang, Lihong; Fellgett, Alison; Gupta, Vibha; Pradhan, Akshay Kumar; Bancroft, Ian (2020) Validation of an Associative Transcriptomics platform in the polyploid crop species *Brassica juncea* by dissection of the genetic architecture of agronomic and quality traits. *The Plant J.* 103, 1885 – 1893
- 2) Latika Bhayana, Kumar Paritosh, Heena Arora, Satish Kumar Yadava, Priyansha Singh, Divakar Nandan, Arundhati Mukhopadhyay, Vibha Gupta, Akshay Kumar Pradhan, Deepak Pental (2020) A mapped locus on LG A6 of *Brassica juncea* line *Tumida* conferring resistance to white rust contains a CNL type R gene. *Frontiers in Plant Science* 10, 1690
- 3) Heena Arora, K. Lakshmi Padmaja, Kumar Paritosh, Nitika Mukhi, A. K. Tewari, Arundhati Mukhopadhyay, Vibha Gupta, Akshay K Pradhan, Deepak Pental (2019) *BjuWRR1*, a CC-NB-LRR gene identified in *Brassica juncea*, confers resistance to white rust caused by *Albugo candida*. *Theor Appl Genet* 132: 2223 - 2236
- 4) Vats P, Dabas A, Jain V, Seth A, Yadav S, Kabra M, Gupta N, Singh P, Sharma R, Kumar R, Polipalli SK, Batra P, Thelma BK, Kapoor S. (2020) Newborn Screening and Diagnosis of Infants with Congenital Adrenal Hyperplasia. *Indian Pediatr.* 57:49-55.
- 5) Panchaichira TJ, Mukhopadhyay A, Kukshal P, Bhatia T, Deshpande SN, Thelma BK. (2020) Association of regulatory variants of dopamine β -hydroxylase with cognition and tardive dyskinesia in schizophrenia subjects. *J Psychopharmacol.* 34:358-369.
- 6) John J, Bhattacharyya U, Yadav N, Kukshal P, Bhatia T, Nimgaonkar VL, Deshpande SN, Thelma BK. (2020) Multiple rare inherited variants in a four-generation schizophrenia family offer leads for complex mode of disease inheritance. *Schizophr Res.* 216:288-294.
- 7) Garg R, Sait H, Jindal A, Juneja M, Gupta S, Thelma BK, Kapoor S. (2019) Factors Associated with Transient Neonatal Hyperthyrotropinemia. *Indian J Pediatr.* 87:482-483.

- 8) Banerjee P, Bhagavatula S, Sood A, Midha V, Thelma BK, Senapati S. (2019) Association study identified biologically relevant receptor genes with synergistic functions in celiac disease. *Sci Rep.* 9:13811.
- 9) Pandey S, Tomar LR, Kumar S, Dinesh S, Thelma BK. (2019) Expanding the canvas of PRKN mutations in familial and early-onset Parkinson disease. *Parkinsonism Relat Disord.* 66:216-219.
- 10) Sait H, Kapoor S, Jindal A, Garg R, Belwal RS, Yadav S, Gupta S, Thelma BK. (2019) Association Between Neonatal Thyroid Stimulating Hormone Status and Maternal Urinary Iodine Status. *Indian Pediatr.* 56:472-475.
- 11) Sharma A, Thelma BK. (2019) Pharmacophore modeling and virtual screening in search of novel Bruton's tyrosine kinase inhibitors. *J Mol Model.* 25:179.
- 12) Verma P, Kapoor S, Kalaivani M, Vats P, Yadav S, Jain V, Thelma BK; Science and Engineering Research Board – Newborn Screening Initiative Group (SERB-NBS) members. (2019) An Optimal Capillary Screen Cut-off of Thyroid Stimulating Hormone for Diagnosing Congenital Hypothyroidism: Data from a Pilot Newborn Screening Program in Delhi. *Indian Pediatr.* 56:281-286.
- 13) Gupta A, Pandey R, Sinha R, Chowdhary A, Pal RK and Rajam MV. (2019) Improvement of post-harvest fruit characteristics in tomato by fruit specific over-expression of oat arginine decarboxylase gene. *Plant Growth Regul.* 88, 61-71.
- 14) Gulzar B, Mujib A, Rajam MV, Frukh A and Zafar N. (2019) Identification of somatic embryogenesis (SE) related proteins through label-free shotgun proteomic method and cellular role in *Catharanthus roseus* (L.) G. Don. *Plant Cell, Tiss, Org. Cult.* 137, 225-237.
- 15) Yogindran S and Rajam MV. (2020) Host-derived artificial miRNA-mediated silencing of ecdysone receptor gene provides enhanced resistance to *Helicoverpa armigera* in tomato. *Genomics*, doi.org/10.1016/j.ygeno.2020.10.004.
- 16) Mahto BK, Singh A, Pareek M, Rajam MV, Dhar-Ray S and Reddy PM. (2020) Host-induced silencing of the *Colletotrichum gloeosporioides* conidial morphology 1 gene (CgCOM1) confers resistance against Anthracnose disease in chilli and tomato. *Plant Mol. Biol.* 104:381-395.
- 17) Jaiwal A, Natarajaswamy K and Rajam MV. (2020) RNA silencing of hormonal biosynthetic genes impairs larval growth and development in cotton bollworm, *Helicoverpa armigera*. *J. Biosci.* 45:109.
- 18) Ismail S, Tulsi Naik KS, Rajam MV and Mishra RK. (2020) Targeting genes involved in nucleopolyhedrovirus DNA multiplication through RNA interference technology to induce resistance against the virus in silkworms. *Mol. Biol. Rep.* 47:5333-5342.
- 19) Rajam MV. 2020. RNA silencing technology: A boon for crop improvement. *J. Biosci.* 45:118.
- 20) Kaur R, Bhunia RK and Rajam MV. 2020. MicroRNAs as potential targets for improving rice yield via plant architecture modulation: Recent studies and future perspectives. *J. Biosci.* 45:116
- 21) Pragati, Chanu SI, Sarkar S. (2020) Reduced expression of dMyc mitigates TauV337M mediated neurotoxicity by preventing the Tau hyperphosphorylation and inducing autophagy in *Drosophila*. *Neurosci Lett.* 715:134622.
- 22) Nisha, Aggarwal P, Sarkar S. (2019) Adequate expression of Globin1 is required for development and maintenance of nervous system in *Drosophila*. *Mol Cell Neurosci.* 100:103398.

- 23) Rajarammohan S, Pental D, Kaur J. (2019) Near-Complete Genome Assembly of *Alternaria brassicae*- A Necrotrophic Pathogen of Brassica Crops. 32:928-930.
- 24) Mandal S, Rajarammohan, S. Kaur J. (2019) ROS accumulation and associated cell death mediates susceptibility to *Alternaria brassicae* in *Arabidopsis* accessions. *Physiological and Molecular Plant Pathology*, 107: 51-59.
- 25) Rajarammohan S, Paritosh K, Pental D, Kaur J. (2019) Comparative genomics of *Alternaria* species provides insights into the pathogenic lifestyle of *Alternaria brassicae* - a pathogen of the Brassicaceae family. *BMC Genomics*. 20:1036.
- 26) Gulati P. Kaur P, Rajam MV, Srivastava T, Mishra P, Islam SS. (2019) Vertically aligned multi-walled carbon nanotubes based flexible immunosensor for extreme low-level detection of multidrug resistant leukemia cells. *Sensors and Actuators B: Chemical* 301:127047

4. Journals

Published by the department: NIL

Faculty member in editorial board

Three (Prof. A. K. Pradhan, Prof. B. K. Thelma, Prof. M. V. Rajam)

5. Research Projects

- 1) Prof. BK Thelma: Funding Agency: Department of Biotechnology (DBT), Title: From new genetic findings in schizophrenia and Parkinson's disease to uncovering their causative mechanisms using contemporary in vitro tools, Period: 2019-2022, Amount sanctioned: Rs. 95.62 lakhs
- 2) Dr Tapasya Srivastava, Funding Agency: SERB, Title: Elucidating the molecular basis and functional relevance of hypoxia mediated aberrant methylation in glioma cells, Period: 2017-2020. Amount sanctioned: Rs. 76 lakhs
- 3) Prof. A. K. Pradhan, Funding Agency: DBT-BBSRC (UK), Title: Genomics-led improvement of abiotic stress tolerance in mustard rape for economic and environmental sustainability (Coordinator and Principal Investigator), Period: 2018-2021. Amount sanctioned: 108.43 lakhs
- 4) Prof. A. K. Pradhan, Funding Agency: Department of Biotechnology (DBT), Title: Nutritional Improvement of Indian Oilseed Mustard Using CRISPR-Cas9 Mediated Genome Editing. Period: 2019-2022, Amount sanctioned: 53.45 lakhs
- 5) Dr. Kaustuv Datta, Funding Agency: BRNS, Title: Elucidating the control exerted on mitochondrial activity by YDR336w(MRX8), a nuclear-encoded GTPase in *Saccharomyces cerevisiae*, Period: 2017-2020, Amount sanctioned: 35 lakhs
- 6) Dr. Kaustuv Datta, Funding Agency: CSIR, Title: To decipher the link between function of yeast clade specific mitochondrial RNA helicases and virulence of opportunistic pathogen *Candida albicans*, Period: 2017-2020, Amount sanctioned: 35 lakhs
- 7) Dr. Surajit Sarkar, Funding Agency: SERB, Title: Combinatorial effect of Myc and Glycogen Synthase Kinase 3 (GSK3) modulation in pathogenesis of human neurodegenerative tauopathies in *Drosophila* disease models. Period: 2019-2022, Amount sanctioned: Rs. 33.63 lakhs
- 8) Surajit Sarkar- Title: Excavating the aggregation dynamics and role of Neurofibrillary Tangles (NFTs) in pathogenesis of human tauopathies in *Drosophila* disease models (2018-2021), Funding Agency: Department of Biotechnology (DBT), Amount: Rs. 57.6 lakhs.

6. Seminars Organized (Max. 10, Name of Speaker, Designation and Affiliation, Title of Talk, Date)

Speaker: Dr Anurag Sankhyan; Designation and Affiliation: Assistant Deputy Director and Officer-in-charge, Rabies Research Centre, Central Research Institute, Kasauli; Title of Talk: Antibody engineering and its application; Date: 16th April 2019.

Speaker: Prof Amitabha Bandopadhyay; Designation and Affiliation: Professor, Department of Biosciences and Biomedical Engineering, IIT Kanpur; Title of Talk: The evolving technology-based entrepreneurship ecosystem in India; Date: 7th January 2020

7. Other Inter-Institutional Collaboration

Dr Tapasya Srivastava has on-going research collaborations with Jamia Millia Islamia and All India Institute of Medical Sciences

8. Placement Details (Number and percentage of students placed; Number of Companies visited for Campus recruitment)

Outgoing M.Sc. and Ph.D. students opted for higher education (Ph.D/ Post-doctoral research work) in National and International Institutions.

9. Extension and Outreach Activities

As Warden of Aravali and Saramati PG Men's Hostels at South Campus, Dr. Surajit Sarkar has been involved in organization various outreach activities.

As the Warden of the Geetanjali Hostel, Dr Tapasya Srivastava has been involved in organization of multiple activities organized by and within the hostel throughout the year.

10. Number of M.Phil/Ph.D Degrees Awarded

Ph.D.: 4

DEPARTMENT OF MICROBIOLOGY

1. Major Activities and Achievements

Prof. Swati Saha's laboratory examines two aspects of Leishmania DNA biology – DNA replication and chromatin modifications. The past year we have investigated the DNA replication protein Cdc45. Our work has demonstrated Leishmania Cdc45 to be the first among all eukaryotes studied so far, to interact with PCNA, the DNA polymease clamp protein. The motif by which it does so has been identified, and the role of the interaction has been examined. We have also investigated two GNAT-family proteins, Elp3a and Elp3b as well as histone methyltransferases SET2 and SET3. These investigations are being taken further. Dr. Rajeev Kaul Laboratory studied the role of KSHV lytic proteins K-RTA and K8 in binding to cellular and viral chromatin to modulate gene expression. The study showed that K-RTA and K8 specifically bind to specific sequence motif on the host and viral genomes and modulate transcriptional regulation of viral and host genes during KSHV lytic reactivation. The work on Peste-des-petits ruminants virus have shown that PPRV encoded C and V non-structural proteins play a crucial role in virus mediated immune-modulation of host which could be critical for disease pathogenesis. Prof. Rani Gupta's lab has developed process for L-theanine synthesis using bacterial GGT and it has been successfully upscaled for pilot scale demonstration. Further, catalytically efficient mutant of GGT from *Bacillus atrophaeus* was developed and has been exploited in synthesising gamma-d-glutamyl-L-tryptophan. Also, Lip11 from *Yarrowia*

lipolytica has been expressed in *Pichia pastoris*; deglycosylation at N-terminus and N-terminal truncations resulted in variant with enhanced activity. Alongside, γ -CGTase from *Bacillus caseinilyticus* SP^T strain has been purified and heterologously expressed in *E. coli*. Dr. Y. P. Khasa laboratory studied the production and stabilization of recombinant ubiquitin-like protease 1 (Ulp1) in *E. coli*. The development of cell surface display system using native anchoring protein from *Pichia pastoris* were identified using computation approach. The development of recombinant scFv against TNF- α has been initiated using bacterial and eukaryotic systems.

2. Publications

- 1) Jain, J., Gaur, S., Chaudhary, Y., Kaul, R. (2020). The molecular biology of intracellular events during Coronavirus infection cycle. *VirusDisease* 4:1–5. 2019
- 2) Paul, C., Kaul, R. (2019) Virus-Mediated Cancers in Animals. In: Malik Y., Singh R., Yadav M. (eds) *Recent Advances in Animal Virology*. Springer, Singapore. <https://doi.org/10.1007/978-981-13-9073-9>
- 3) Bhadrecha, P., Bala, M., Khasa, Y.P., Arshi, A., Singh, J., Kumar, M. (2020) Hippophae rhamnoides L. rhizobacteria exhibit diversified cellulase and pectinase activities. *Physiol. Mol. Biol. Plants*. 26(5):1075-1085
- 4) Adivitiya, Babbal, Mohanty, S., Dagar, V.K. and Khasa, Y.P. (2019) Development of a streptokinase expression platform using the native signal sequence of the protein with internal repeats 1 (PIR1) in *P. pastoris*: gene dosage optimization and cell retention strategies. *Process Biochemistry*, 83:64–76
- 5) Babbal, Adivitiya, Mohanty, S. and Khasa, Y.P. (2019) “Enzymes as Therapeutic Agents in Human Disease Management” in A handbook on high-value fermentation products Editors: Saurabh Saran, Vikash Babu, Asha Chaubey by Scrivener Publishing LLC, USA. Volume 1, Chapter 10, Page 225-264.

3. Journals: None

4. Research Projects

- 1) Three new projects were sanctioned in the department, with a total grant of Rs.170.59 lakhs during 2019-2020.
- 2) DBT, Investigating cell cycle dependent gene expression in the protozoan parasite *Leishmania donovani*: a genome-wide study. 2019-2022 Prof. Swati Saha, 82.6 lakhs.
- 3) DBT, Development of a scalable expression platform for the overproduction of commercially important novel Ubiquitin-Like proteases (Ulp) from *Schizosaccharomyces pombe* in *Escherichia coli*. 2020-2022, Dr. Y. P. Khasa, 39.15 Lakhs
- 4) MHRD-STARs Designing and large scale production of recombinant single chain antibody (scFv) against human Tumor Necrosis Factor alpha (hTNF- α). 2019-2022, Dr. Y. P. Khasa, 48.84 Lakhs

5. Placement Details (Number and percentage of students placed)

6 M.Sc. students and 4 Ph.D. students opted for higher education and industrial jobs (Ph.D., Post-doctorate, industry job, etc.)

6. Extension and Outreach Activities

None

7. Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 4

M.Phil.: 0

8. Faculty Strength: 5

DEPARTMENT OF PLANT MOLECULAR BIOLOGY

1. Major Activities and Achievements

The on-going research in the Plant Molecular Biology department focuses on understanding the molecular mechanisms involved in the regulation of plant reproductive development and plant responses to various biotic and abiotic stresses. The methodology we apply and develop involves a combination of high throughput genomics, transcriptomics, gene function manipulation through RNAi and CRISPR, transgenics, along with optical, laser-confocal and scanning electron microscopy. Investigations have been made to define the role of transcription factor OsNF-YB9 in regulating growth and development in rice. A rice MADS-box transcription factor OsMADS29 was identified and characterized for its role in starch biosynthesis and grain filling. Recent studies reveal that its translocation into the nucleus is affected by its interaction with other MADS-box proteins. Brassinosteroids (BRs) are plant hormones that are important for plant growth, development and immune responses. We have shown that TaBRI1 in wheat interacts with members of the TaSERK gene family. In an effort to improve the quality of tomato fruits, we are in the process of characterizing several Ethylene Responsive Factors (ERFs) by analyzing the effects of their altered expression on the quality of tomato fruits. Concerning heat stress, our studies provide genetic evidence that Hsc70-1 is a negative regulator affecting HsfA1d/A1e/A2 activators, which in turn regulate Hsp101 expression and basal thermotolerance. Efforts have also been made to carry out genomics and functional genomics analyses of calcium-mediated signaling components under nutrient limitation and abiotic stresses in Arabidopsis and rice, to understand the underlying molecular mechanism. We have also been working for unraveling the cross-talk between viruses and plants and developing tools to investigate plant-virus interactions.

2. Publications

- 1) Agarwal, P., Khurana, P. (2019). TaZnF, a C3HC4 type RING zinc finger protein from *Triticum aestivum* is involved in dehydration and salinity stress. *Journal Plant Biochemistry & Biotechnology* (doi: 10.1007/s13562-019-00546-8)
- 2) Basu, U., Narnoliya, L., Srivastava, R., Sharma, A., Bajaj, D., Daware, A., Thakro, V., Malik, N., Upadhyaya, H.D., Tripathi, S., Hegde, V.S., Tyagi, A.K. & Parida, S.K. (2019). CLAVATA signaling pathway genes modulating flowering time and flower number in chickpea. *Theor. Appl. Genet.* 132: 2017-2038.
- 3) Basu, U., Upadhyaya, H.D., Srivastava, R., Daware, A., Malik, N., Sharma, A., Bajaj, D., Narnoliya, L., Thakro, V., Kujur, A., Tripathi, S., Bharadwaj, C., Hegde, V.S., Pandey, A.K., Singh, A.K., Tyagi, A.K. & Parida, S.K. (2019). ABC transporter-mediated transport of glutathione conjugates enhances seed yield and quality in chickpea. *Plant Physiol.* 180: 253-275.
- 4) Bheri M, Pandey GK (2019) Protein Phosphatases Meet Reactive Oxygen Species in Plant Signaling Networks. *Environment and Experimental Botany*, 161: 26-40.

- 5) Das, S., Parida, S.K., Agarwal, P. & Tyagi, A.K. (2019). Transcription factor OsNF-YB9 regulates reproductive growth and development in rice. *Planta* 250: 1848-1865.
- 6) Gogoi, A., Kaldis, A., Dasgupta, I., Borah, B. K. & Voloudakis, A. (2019) Sense- and antisense-mediated resistance against Sri Lankan cassava mosaic virus (SLCMV) in *Nicotiana benthamiana*. *Biologia Plantarum* 63: 455-464 DOI: 10.32615/bp.2019.079.
- 7) Kant, R. & Dasgupta, I. (2019). Gene silencing approaches through virus-based vectors: speeding up functional genomics in monocots. *Plant Molecular Biology* 100: 3-18.
- 8) Kumar, G., Jyothsna, M., Valarmathi, P., Roy, S., Banerjee, A., Tarafdar, J., Senapati, B. K., Robin, S., Manonmani, S., Rabindran, R. & Dasgupta, I. (2019). Assessment of resistance to rice tungro disease in popular rice varieties in India by introgression of a transgene against rice tungro bacilliform virus. *Archives of Virology* 164: 1005-1013.
- 9) Kushawaha, A. K. & Dasgupta, I. (2019). Infectivity of cloned begomoviral DNAs: an appraisal. *Virus Disease* 30: 13-21, DOI 10.1007/s13337-018-0453-5.
- 10) Malathi, V. G. & Dasgupta, I. (2019). Insights into the world of ssDNA viruses. *Virus Disease* 30: 1-2.
- 11) Naresh, M., Khan, Z. A., Kumar, R., Kale, S. P., Patil, V. M., Rajput, J. C. & Dasgupta, I. (2019). Occurrence and variability of begomoviruses associated with bhendi yellow vein mosaic and okra enation leaf curl diseases in south-western India. *Virus Disease* 30: 511-525, <https://doi.org/10.1007/s13337-019-00551-4>.
- 12) Narnoliya, L., Basu, U., Bajaj, D., Malik N., Thakro, V., Daware, A., Sharma, A., Tripathi, S., Hegde, V., Upadhyaya, H., Singh, A., Tyagi, A. & Parida, S. (2019). Transcriptional signatures modulating SAM morphometric and plant architectural traits enhance yield and productivity in chickpea. *Plant J.* 98: 864-883.
- 13) Rishishwar, R. & Dasgupta, I. (2019). Suppressors of RNA silencing encoded by geminiviruses and associated DNA satellites. *Virus Disease* 30: 58-65, DOI 10.1007/s13337-108-0418-8.
- 14) Sharma, A., Basu, U., Malik, N., Daware, A., Thakro, V., Narnoliya, L., Bajaj, D., Tripathi, S., Hegde, V.S., Upadhyaya, H.D., Tyagi, A.K. & Parida, S. (2019). Genome-wide cis-regulatory signatures for modulation of agronomic traits as exemplified by drought yield index (DYI) in chickpea. *Func. Integ. Genomics* 19: 973-992.
- 15) Sharma, M., Pandey, G.K. (2019) OsPUB75, an Armadillo/U-box protein interacts with GSK3 kinase and function as negative regulator of abiotic stress response. *Environmental and Experimental Botany*, 161: 388-398.
- 16) Singh, A., Mohorianu, I., Green, D., Dalmay, T., Dasgupta, I. & Mukherjee, S.K. (2019). Artificially induced phased siRNAs promote virus resistance in transgenic plants. *Virology* 537: 208-215 <https://doi.org/10.1016/j.virol.2019.08.032>.
- 17) Srivastava, A.K., Shankar, A., Nalini Chandran, A.K., Sharma, M., Jung, K.H., Suprasanna, P., Pandey, G.K. (2019). Emerging concepts of potassium homeostasis in plants. *Journal of Experimental Botany* 71(2): 608-619.
- 18) Tiwari, L.D. & Grover, A. (2019). Cpn60β4 protein regulates growth and developmental cycling and has bearing on flowering time in *Arabidopsis thaliana* plants. *Plant Science* 286: 78-88.

- 19) Bheri, M., Mahiwal, S., Sanyal, S.K. & Pandey, G.K. (2020). Plant protein phosphatases: What do we know about their mechanism of action? FEBS J. 2020 Jun 15. doi: 10.1111/febs.15454.
- 20) Chaudhary C., Sharma N. & Khurana P. (2020). Decoding the wheat awn transcriptome and overexpressing TaRCA1B in rice for heat stress tolerance. Plant Molecular Biology (doi.org/10.1007/s11103-020-01073-0)
- 21) Gahlaut V., Samtani H. & Khurana P. (2020). Genome-wide identification and expression profiling of cytosine-5 DNA methyltransferases during drought -and heat stress in wheat (*Triticum aestivum*). Genomics 112: 4796-4807.
- 22) Kanwar, P., Samtani, H., Sanyal, S.K., Srivastava, A.K., Suprasanna, P. & Pandey, G.K. (2020). VDAC and its interacting partners in plant and animal systems: an overview. Critical Review in Biotechnology 40(5):715-732.
- 23) Kumar, G., Zarreen, F. & Dasgupta, I. (2020). Rice Tungro Disease, In: Encyclopedia of Virology, Elsevier. Doi: 10.1016/B978-0-12-809633-8.21243-0.
- 24) Kumar, G. & Dasgupta, I. (2020). Comprehensive molecular insights into the stress response dynamics of rice (*Oryza sativa* L.) during rice tungro disease by RNA-Seq-based comparative whole transcriptome analysis. Journal of Biosciences 45: 27 <https://doi.org/10.1007/s12038-020-9996-x>.
- 25) Kumar, M., Sharma, K., Yadav, A.K., Kanchan, K., Baghel, M., Kateriya, S. & Pandey, G.K. (2020). Genome wide identification and biochemical characterization of Calcineurin B-like calcium sensor proteins in *Chlamydomonas reinhardtii*. Biochemical Journal pii: BCJ20190960. doi: 10.1042/BCJ20190960.
- 26) Kumar, R., Khungar, L., Shimphrui, R., Tiwari, L. D., Tripathi, G. Sarkar, N. K., Agarwal, S-K Agarwal, M. & Grover. A. AtHsp101 research sets course of action for the genetic improvement of crops against heat stress. Journal Plant Biochemistry Biotechnology (in press)
- 27) Li, S., Nayar, S., Jia, H., Kapoor, S., Wu, J., Yukawa, Y. (2020). The Arabidopsis Hypoxia Inducible AtR8 Long Non-Coding RNA also Contributes to Plant Defense and Root Elongation Coordinating with WRKY Genes under Low Levels of Salicylic Acid. Non-coding RNA 6, 1–21.
- 28) Meena, S., Deb, S., Samtani H. & Khurana P. (2020). Dissecting the molecular function of *Triticum aestivum* STI family members during heat stress. Frontiers in Genetics (doi: 10.3389/gene.2020.00873)
- 29) Mishra, R.C. & Grover, A. (2020). Voyaging around ClpB/Hsp100 proteins and plant heat tolerance. Proceedings Indian National Science Academy (PINSAs). 85: 791-802
- 30) Parihar, V., Arya, D., Walia, A., Tyagi, V., Dangwal, M., Verma, V., Khurana, R., Boora, N., Kapoor, S., Kapoor, M. (2019). Functional characterization of LIKE HETEROCHROMATIN PROTEIN 1 in the moss *Physcomitrella patens*: its conserved protein interactions in land plants. Plant Journal 97, 221–239.
- 31) Parihar V, Dangwal M, Arya D, Kapoor S, Kapoor M. (2019). Decrease in DNA methylation 1 interacts with chromomethylase and like heterochromatin protein 1 in *Physcomitrella patens*. FEBS Letters 593.
- 32) Sanfacon, H., Dasgupta, I., Fuchs, M., Karasev, A.V., Petrzik, K., Thompson, J.R., Tzanetakis, I., van der Vlugt, R., Wetzel, T. & Yoshikawa, N. (2020). Proposed revision of the family Secoviridae to

create three subgenera, Satsumavirus, Stramovirus and Cholivirus, in the genus Sadwavirus. Archives of Virology 165: 527-533. <https://doi.org/10.1007/s00705-019-04468-7>.

- 33) Sanyal, S.K., Kanwar, P., Fernandes, J.L., Mahiwal, S., Yadav, A.K., Samtani, H., Srivastava, A.K., Suprasanna, P. & Pandey, G.K. (2020). Arabidopsis Mitochondrial Voltage-Dependent Anion Channels Are Involved in Maintaining Reactive Oxygen Species Homeostasis, Oxidative and Salt Stress Tolerance in Yeast. *Frontier in Plant Science*.11:50. doi: 10.3389/fpls.2020.00050. eCollection 2020.
- 34) Sanyal, S.K., Mahiwal, S., Nambiar, D.M. & Pandey, G.K. (2020). CBL-CIPK module-mediated phosphoregulation: facts and hypothesis. *Biochemical Journal* 477(5):853-871.
- 35) Sarkar, N.K., Kotak, S., Agarwal, M., Kim, Y-K & Grover, A. (2020). Silencing of Class I small heat shock proteins affects seed-related attributes and thermotolerance in rice seedlings. *Planta* 251:26.
- 36) Sharma, N., Chaudhary, C.K. & Khurana, P. (2020). Myo-inositol phosphate synthase molecular switch influencing plant growth and stress responses via ethylene. *Scientific Reports* (doi: 10.1038/s41598-020-67627)
- 37) Sharma, N., Chaudhary, C.K. & Khurana P. (2020). Role of myo-inositol during skotomorphogenesis in Arabidopsis. *Scientific Reports* (doi: 10.1038/s41598-020-73677-x)
- 38) Singh, D., Yadav, R., Kaushik, S., Wadhwa, N., Kapoor, S., Kapoor, M. (2020). Transcriptome Analysis of ppdnmt2 and Identification of Superoxide Dismutase as a Novel Interactor of DNMT2 in the Moss *Physcomitrella patens*. *Frontiers in Plant Science* 11, 1–20.
- 39) Tiwari, L.D., Khungar, A. & Grover, A. (2020). AtHsc70-1 negatively regulates the basal heat tolerance in Arabidopsis thaliana through affecting the activity of HsfAs and Hsp101. *The Plant Journal* 103: 2069-2083.
- 40) Tyagi, V., Parihar, V., Malik, G., Kalra, V., Kapoor, S., Kapoor, M. (2019). The DEAD-box RNA helicase eIF4A regulates plant development and interacts with the hnRNP LIF2L1 in *Physcomitrella patens*. *Molecular Genetics and Genomics*, <https://doi.org/10.1007/s00438-019-01628-x>.

3. Journals

Published by the Department: None

Number of Department teachers are serving as Editor(s)/Members(s) of Editorial Boards of various Scientific Journals:

Professor A.K.Tyagi

Molecular and General Genomics, Transgenic Research, Rice

Prof. Sanjay Kapoor

Associate Editor, Rice

Associate Editor: Journal of Plant Physiology and Biochemistry

Professor G. K. Pandey

Editorial Board member, Scientific Reports, NPG

Academic Editor of PLoS One

Associate Editor, Plant Molecular Biology Reporter

Editorial Board member of Plant Signaling and Behavior

Editorial Board member of Current Biotechnology

Editorial Board member of Current Genomics

Editor, Physiology and Molecular Biology of Plant

4. Research Projects

Professor Paramjit Khurana

Multi Institutional Network Project on Mulberry Genomic Approaches (2018-2021).

NW1: Genomic Resources for Mulberry: Indian Mulberry Nuclear Genome Sequencing, jointly with JNU, New Delhi. (85.34 lakhs).

NW3A: Discovery and validation of growth and abiotic stress related genes in mulberry, jointly with GKVK, UAS, Bangalore. (89.62 lakhs).

Professor Arun Sharma

Regulation of ripening in tomato by manipulation of epigenome. (2016-2021). DBT. 91.74 lakhs.

Tomato Ripening Network. (2015-2021). DBT. 130.98 lakhs.

Professor Sanjay Kapoor

Development of a Cell-line based Starch Bio-factory System by Manipulating Components of Starch Regulatory and Biosynthetic Machinery in Tobacco BY-2 Cells Feb 13, 2020 To: Feb 12, 2023, 53 Lakhs

Sub-project IV: Characterization of Gene Regulatory Networks and Transcriptional Mechanisms that Control Male Gametophyte, under National Rice Functional Genomics Consortium Project entitled, Functional Characterization of Genetic and Epigenetic Regulatory Networks Involved in the Reproductive Development in Rice 2015-2021, DBT 167.4 Lakhs.

Professor G.K. Pandey

Detail expression analysis of CIPK9 and identification of upstream regulatory sequences responsive to potassium deficiency in Arabidopsis, SERB, India, 35 Lakhs

Targeted genome editing of calcium signaling components to develop stress tolerant rice, DBT, India, 65 Lakhs

Functional characterization of AtPUB2 (Plant U-Box/ARMADILLO) under oxidative stress conditions in Arabidopsis thaliana, CSIR, India, 37 lakhs

Professor Indranil Dasgupta

J. C. Bose Fellowship. (2017-2022). Science and Engineering Research Board, 100 lakhs

5. Patents Filed/Granted:

Nil

6. Seminars Organized

Organized DPMB Annual Symposium from March 14 to March 15, 2019

7. Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. - 10

8. Faculty Strength

10 (Permanent)

**FACULTY OF LAW
CAMPUS LAW CENTRE**

Major Activities and Achievements

Campus Law Centre (CLC) has consistently been ranked among the top law schools in India. CLC organized K.K. Luthra Memorial Moot Court Competition in January 17th –19th, 2020 which saw participation from over 56 Universities including participation from International Universities such as Northumbria University UK, Bristol Law School, UK, Sri Lanka Law College, University of Nairobi, and multiple other institutions. The Legal Aid Society of CLC held regular outreach and awareness programmes throughout the academic year. The Seminars, Debates and Discussions Society of CLC organized regular weekly presentations to promote the culture of debate and discussion. The Journal of the Campus Law Centre is published annually. Students of CLC have won accolades in various moot court competitions and mediation competitions. Many students have secured admissions for further studies in various foreign universities.

Honours/Distinctions

Prof. Kamala Sankaran was Vice Chancellor, Tamil Nadu National Law University from December 30, 2016 - December 29, 2019.

Prof. Kamala Sankaran was Chairperson, Gargi College, University of Delhi (University Nominee on the Governing Body, Gargi College, University of Delhi) (2020).

Dr. Vandana Mahalwar was Fulbright Nehru Postdoctoral Research Fellowship at Duke University (May 2019 - June 2020)

Dr. Harleen Kaur was awarded Academic Excellence Award for the year 2019 in 3rd National Symposium & Awards organised by Iswar Saran Post Graduate College (University Of Allahabad) & Droit Penale: Indian Law Journal on Crime And Criminology, Legal Path Foundation, October 13, 2019 at Iswar Saran Post Graduate College, University Of Allahabad, Allahabad.

Dr. Narender Kumar Bishnoi was Member, Academic Council, 2019- 21, University of Delhi

Publications

Books

Cullet, Philippe & Koonan Sujith. (ed) (2019). *Research handbook on Law, Environment and the Global South*. (Cheltenham, UK) Edward Elger.

Chapters in a Book

Aneja, Neha (2019). Reproductive rights of women with disabilities, in V.K Ahuja (ed.) *Human rights contemporary issues*. 527-551. New Delhi: EBC Publisher.

Chawla, Alka. (2020). Coalition between Traditional Knowledge and Intellectual Property Laws: Probable Potentiality in Ahuja V.K. and Vashishtha Archa(ed.) *Intellectual Property Rights Contemporary Developments* 513-533. New Delhi: Thomson Reuters.

Jeenger, Kailash (2019). Towards a Theory of Customary International Humanitarian Law, in *International Humanitarian Law*, New Delhi: Satyam Law International.

Khan, Ambrina and Anita Yadav (2019). Protection of Child Rights During Armed Conflict: The Dichotomy Between Rhetoric and Reality in Prof. (Dr.) Vijender Kumar et al. (ed.) *Children, Law and Society*. 889-915. New Delhi: Bharti Publications.

Kaur, Harleen. (2019). Women and Law child rape laws in India and the Complexities involved in the criminal Justice System. In P. Arvind Bhanu (ed.), *Women and Law*.169-178. New Delhi: Satyam Law International.

Sankaran, Kamala. (2019). Transition from the Informal to the Formal Economy: The Continuing Relevance of State Law' in Mahendra Pal Singh, Wolfram Cremer and Niraj Kumar (eds.), *Open Markets, Free Trade and Sustainable and Development: Perspectives from EU and India*, 39-47. Germany: Springer.

Sankaran, Kamala. (2019). Domestic Work, Unpaid Work and Wage Rates' in Neetha N. (ed.) *Working in Others; Homes: The Specifics and Challenges of Paid Domestic Work*, 298-311. New Delhi: Tulika Books.

Singh K. Kshitij (2019). Legal issues in nanotechnology in Role of Plant Growth Promoting Microorganism in Sustainable Agriculture and Nanotechnology, Ajay Kumar et al (eds) Woodhead Publishing. 107-119. United States: Elsevier ISBN-10: 0128170042.

Articles

Kaur, Harleen. (2019). Levy of Integrated Goods and Service Tax on the Service of Transportation of Goods from Outside India to India in a Foreign Vessel: An Analysis. *International Journal of Research and Analytical Reviews (IJRAR)*, Vol.6,193-198. ISSN:2348-1269.

Mahalwar, Vandana. (2019). Law and Social Change. *Annual Survey of Indian Law*, Vol. LIII, 517-530.

Sankaran, Kamala. (2019). Country Reporter: India, *International Labour Law Reports*, Vol 38, Brill Nijoff.

Tandon, Usha. (2020). Disaster Management and Sustainable Development in the Asia and Pacific Region: Engendering the Strategies of the SDGs, In Malhotra V.K., Fernando R.L.S., Haran N.P. (eds) *Disaster Management for 2030 Agenda of the SDG. Disaster Research and Management Series on the Global South* 11-32 Palgrave Macmillan, (Singapore). https://doi.org/10.1007/978-981-15-4324-1_2

Tandon, Usha. (2020). Use of Investigation Plans in Indian Criminal Justice: The Crime of Human Trafficking. (co-authored). In Xabier Agirre, Morten Bergsmo, Simon De Smet and Carsten Stahn (eds.) *Quality Control in Criminal Investigation*, 851-886 TOAEP, Brussels.

Yadav, Suman. (2019). Human Rights of Prisoners: Analyzing the Rights of Prisoners under The Indian Constitution. *Kurukshetra Law Journal*, Vol. VIII, 280-292.

Articles in Web

Jeenger, Kailash. (2020). The Hypocrisy in Removing Teaching Post Quotas From Institutions of Excellence. , <https://thewire.in/caste/faculty-caste-teachers-reservations>

Jeenger, Kailash. (2019). From Hope to Despair, Sixty Years of the Indian Society of International Law. <https://thewire.in/law/from-hope-to-despair-sixty-years-of-the-indian-society-of-international-law>

Nagarwal, Narender. (2019). The Poisonous Law-The Citizenship Amendment Act 2019, *The Kashmir Times, Srinagar and Jammu edition*. <http://kashmirtimes.com/newsdet.aspx?q=97408#>

Nagarwal, Narender. (2020). Global Implications of India's Citizenship Amendment Act 2019, *International think tank Russian Council of International Affairs, Moscow, Russia*. <https://www.RIAC.com/Moscow> (Russia).

Singh, Seema. (2019). What India Seeks on World Population Day. *The Organizer and The Organizer Encyclopedia*. <https://www.organiser.org/Encyc/2019/7/11/What-India-Seeks-on-World-Population-Day.html>

Tandon, Usha. (2020). Green Justice and the Polluter-pays Principle: A Study of India's National Green Tribunal. *OIDA International Journal of Sustainable Development* (Ontario Canada), 13, Issue (01), 35-46, 2020 Available on <https://oidaijsd.com/wp-content/uploads/2020/09/13-01-03-31.pdf>

Tandon, Usha. (2020). Justice for Delhi Rape Victim: A Case for Quality Control Post-Conviction. *Policy Brief Series No. 103, TOAEP, (Florence, Italy)* <https://www.toaep.org/pbs-pdf/103-tandon/>

Yadav, Anita, et al. (2020). Understanding the legal conundrum of employer's right in India during Covid-19 crisis. *ILI Law Review* (e-ISSN-0976-1489). 162-194. (Covid Special Issue -2020) UGC- CARE list, under Group- D, S.no. 42. Retrieved from <http://www.ili.ac.in/ilrcovid.html>

Yadav, Anita. (2020). Understanding accountability and responsibility of Transnational Corporations in International legal framework. *Mukt Shabd Journal* ISSN NO: 2347-3150. 143-157. Vol. IX Issue IV (S) 2020 (UGC CARE Journal Sr. No.186). Retrieved from <http://shabdbooks.com/Special-Issue-1/>

Journal Published by the Centre –

Journal of Campus Law Centre, Volume VII: 2019

Number of teachers serving as Editor(s)/Member(s) of Editorial Board – 02

Prof. (Dr.) Kamala Sankaran

Member, Committee of Experts on the Application of Conventions and Recommendations, International Labour Organization, Geneva.

Member, Research Review Group, International Labour Organization, Geneva

Member, International Editorial Advisory Board, *International Journal of Comparative Labour Law and Industrial Relations*, (Kluwer Law)

Member, Editorial Board, University of Oxford Human Rights Hub Journal:
(<https://ohrh.law.ox.ac.uk/journal/>)

Member Editorial Advisory Board Indian Journal of Labour Economics: (Springer)

Dr. Suman Yadav

Editor in Editorial Board of Asia Pacific Law and Policy Review, ISSN No. 25814095,
asiapacific.ccinternational.in

Editor in Editorial Board of Commonwealth Law Review Journal, ISSN No. 25813382,
clrj.ccinternational.in

Seminars /Workshops Organized

Campus Law Centre in the memory of Late Sh. K. K. Luthra, Senior Advocate, an eminent criminal lawyer, organized the most prestigious Moot Court Competition, the 16th Edition of K.K. Luthra Memorial Moot Court Competition from 17th -19th January, 2020 in Campus Law Centre. Over 56 Universities participated in the event including International Universities such as Northumbria University UK, Bristol Law School, UK, Sri Lanka Law College, University of Nairobi, and multiple other institutions.

Seminar/Conference Presentations

Aneja, Neha: Chaired a session in national seminar on “Appraisal of Criminal and Correctional Justice Mechanisms in Context of Vulnerable Groups in India” organized at Jagan Nath University, Bahadurgarh, Haryana on March 14, 2020.

Aneja, Neha: Presented a paper titled “Critical Analysis of Criminal Justice System with Regard to Persons with Disabilities”, in national seminar on “Appraisal of Criminal and Correctional Justice Mechanisms in Context of Vulnerable Groups in India” organized at Jagan Nath University, Bahadurgarh, Haryana on March 14, 2020.

Aneja, Neha: Presented Paper titled “Role of Mediation in Reformation of Criminal Justice System” in International Conference on "Criminal Law & Administration of Criminal Justice System in South Asian Countries " organized by ILRSC, March 14-15, 2020.

Bishnoi, K. Narender: Chaired a Technical Session at the International Conference on “Spectrum of Opportunities in 2020- Legal and Management Era” organised by School of Management and Commerce (SOMC) and School of Legal Studies (SOLS) at K. R. Mangalam University, Gurugram on February 6, 2020.

Chawla, Alka: Moderator for Panel Discussion: IP Policies, Framework and Government Initiatives, in IP Fest organised by Intellectual Property Protection Organisation (IPPO) and Jury Member to select awards for Hall of Fame Awards on August, 2019.

Chawla, Alka: presented a paper as Panellist speaker titled, “Harnessing the potential of 5G Technologies for Shared Prosperity,” in Jindal Initiative on Research in IP and Competition. Organized by O.P. Jindal University at Ambassador Hotel, Delhi on August, 2019.

Chawla, Alka: presented a paper titled “Educating the future lawyer. Role of the Law Schools and the Legal Profession in India”, Centre for Post Graduate Legal Studies, Jindal Global Law School, O.P. Jindal University on March, 2020.

Chawla, Alka: Resource person on “Copyright Law for Faculty, Students and Researchers at Faculty Development Programme, “Fundamentals of Intellectual Property Rights”, organized by Department of Botany and IQAC, Hansraj College on January 1, 2020.

Chawla, Alka: Resource person on “Legal Framework for Protection of IPR- Overview of Copyright Act and Trademark Act” in a 2-day course on IP for IPS officers organized by Sardar Vallabhbhai Patel National Police Academy, Hyderabad on August, 2019.

Chawla, Alka: Resource person on “Principles of Administrative Law” in Training Programme on Subordinate Legislation and its Implications” for Officials of Lok Sabha, Rajya Sabha and State Legislature Secretariats from 26 July to 30 August 2019, organised by Bureau of Parliamentary Studies and Training, Lok Sabha Secretariat Parliament of India on August, 2019.

Chawla, Alka: Resource person on “Principles of Administrative Law” in *Second* National Legislative Drafting Programme for Officials of Lok Sabha, Rajya Sabha and State Legislature Secretariats from 29 July to 8 August 2019, organized by Bureau of Parliamentary Studies and Training, Lok Sabha Secretariat Parliament of India on July, 2019.

Chawla, Alka: Resource person on “Principles of Administrative Law”, in 34th International Legislative Drafting Programme organised by Bureau of Parliamentary Studies and Training, Lok Sabha Secretariat Parliament of India on April, 2019.

Haq, Mehpara: Invited as External expert in Legal Writing Viva by Amity Law School, Noida on December 16, 2019.

Haq, Mehpara: Participated in International Workshop on Ethics in Legal Education by Prof Dr. H.C. Christoph jointly organized by Campus Law Centre and Globethics.net Foundation (Geneva) on September 13-14, 2019.

Kaur, Harleen: Chaired a Session in 2nd International Seminar on Criminal law and Criminal Law and Administration of Criminal Justice system in south Asian Countries” organized by Droit Penale: Indian Law Journal on Crime and Criminology an Imprint of Arjun Das Gulati Educational Group (Prayagraj) on March, 15, 2020.

Kaur, Harleen: Chaired a session in 3rd National Symposium & Awards organized by Iswar Saran Post Graduate College (University of Allahabad) & Droit Penale: Indian Law Journal on Crime and Criminology, Legal Path Foundation at Iswar Saran Post Graduate College, University of Allahabad, Allahabad on October 13, 2019.

Kaur, Harleen: Chaired a Session in National Seminar on Appraisal of Criminal and Correctional Justice Mechanisms in Context of Vulnerable Groups in India organized by Department of Law, Jagannath University Bahadurgarh, Haryana on March, 14, 2020.

Kaur, Harleen: Chaired a session in One Day International Seminar on “Human Rights and Persons with Disabilities” organized by Law Mantra in collaboration with Indian law Institute, New Delhi, Maharashtra National Law University, Nagpur, National Law University and Judicial Academy, Assam etc. at the Indian law Institute, New Delhi on January 11, 2020.

Kaur, Harleen: Chaired a session in One-Day International Seminar on “Protection of Children Rights and Law Relating to Women Empowerment” organized by Law Mantra in collaboration with Indian law Institute, New Delhi, Maharashtra National Law University, Nagpur, National Law University and Judicial

Academy, Assam Apejay Satya University-Gurugram at the Indian law Institute, New Delhi on January 12, 2020.

Kaur, Harleen: Delivered an expert lecture on “Provisions of CrPC” in the Joint Foundation Training Programme for HCS Officers & Officers from Allied Services of Haryana” from 27 January – March 13, 2020 organized by Haryana Institute of Public Administration, Gurugram on February, 11,2020.

M., Cholaraja: Paper Presented in the International Colloquium on “Academic Leadership, Freedom and Research Ethics in Law and Social Sciences: Perspectives of India and Malaysia” organized by SGT University titled “The Role of Technology in Legal Education: Threats and Advantages”, at Gurgaon, New Delhi on November 13, 2019.

M., Cholaraja: Paper Presented in the National Seminar on “Gandhi on Duties”, organized by Legal Aid Society in Collaboration with Central District Legal Services Authority titled “Gandhian Duties in Indian Jurisprudence”, at Campus Law Centre, University of Delhi, New Delhi on January 30, 2020,

M., Cholaraja: Paper Presented in the National Seminar on “Justice to All”, organized by International Council of Jurists, All India Bar Association, All India Senior Advocates Association and Indian Council of Jurists at Indian Law Institute, New Delhi on July29, 2019.

Mahalwar, Vandana: Delivered a lecture on ‘Educational and Professional Challenges for Women in India’ at Miami Dade College- The Law Centre, Wolfson Campus, Miami, Florida, February 18, 2020.

Mahalwar, Vandana: Delivered a lecture on ‘International Copyright and Access to Knowledge’ at William S. Boyd School of Law, University of Nevada, Las Vegas, U.S.A., November 12 & 13, 2019.

Mahalwar, Vandana: Delivered a lecture on ‘Women and Justice in India’ at Miami Dade College- The School of Justice, The North Campus, Miami, Florida, U.S.A, February 19, 2020.

Mittal, Raman: Presented a paper titled “Broadcast Management and Copyright”, organized at National Academy of Broadcasting & Multimedia, All India Radio &Door darshan, Delhi, August 29, 2019.

Mittal, Raman: Presented a paper titled “Contract Law: General Principles” in ARISE: Agri entrepreneurship Orientation Program”, organized at Indian Council of Agricultural Research, Delhi, July 10, 2019.

Mittal, Raman: Presented a paper titled “Interface between Copyright and Competition” in Refresher Course for Law Teachers on Developmental Perspectives of Intellectual Property Laws, organized at Cochin University of Science and Technology, Cochin, June 27, 2019.

Mittal, Raman: Presented a paper titled “IPR in Broadcast Management and Digital Rights Management”, organized at National Academy of Broadcasting & Multimedia, All India Radio & Door darshan, Delhi, April 23, 2019.

Mittal, Raman: Presented a paper titled “IPRs: Copyright, Trade Marks, Patents, Trade Secrets”, organized at National Academy of Broadcasting & Multimedia, All India Radio &Door darshan, Delhi, August 29, 2019.

Presented a paper titled “Sports and Merchandising of Trade Marks”, organized at PHD House, New Delhi, April 26, 2019.

Mittal, Raman: Presented a paper titled “Trade Marks Law”, organized at Hansraj College, University of Delhi, January 23, 2020.

Singh K. Kshitij: A judge at the 5th Prof. N. R. Madhava Menon SAARC LAW Mooting Competition 2019-20, India Round at Llyod Law College, Greater NOIDA, on October 20, 2019.

Singh K. Kshitij: Co-chaired a Session in the International Conference on “Domestic Reception of International Law” organised by Campus Law Centre on 12-13 April 2019.

Singh K. Kshitij: Delivered a lecture on “Commercialization of Intellectual Property” in the webinar conducted by FICCI on 8th April 2019.

Singh K. Kshitij: Delivered a lecture on “Fundamental Duties” in a Legal Awareness Programme at the Office of Ministry of Corporate Affairs, Government of India, organised by the Central District Legal Services Authority, Delhi on January 31, 2020.

Singh K. Kshitij: Invited as a panellist in the World IP Day Panel Discussion on the theme “Changing Dimensions of IP in the world of Emerging Techs” organised by Lloyd Law College, Greater Noida on April 27, 2019.

Singh K. Kshitij: Invited as a resource person in the FDP on “Fundamentals of IPR” for teachers and research scholars (23-25 January 2020), organised by Hansraj College, DU. Delivered a lecture on “Patents and IPR” January 25, 2020.

Singh K. Kshitij: Organised one-day National Seminar, “Gandhi on Duties” as convener at the Campus Law Centre, Faculty of Law, University of Delhi on January 30, 2020.

Singh K. Kshitij: Participated as Panellist on National Television Channel, DD National in the program titled “Indian Constitution: Strength” on December 27, 2019 (telecasted on January 20, 2020).

Singh K. Kshitij: Participated as Speaker in the Webinar on “IP Commercialization-Ways and Benefits” organised by FICCI on September 4, 2019.

Singh K. Kshitij: Participated as the Member of Organizing Committee and Teacher-Participant in the International Workshop on “Ethics in Legal Education”, organized by Campus Law Centre, University of Delhi in collaboration with Globethics.net Foundation on September 13-14, 2019.

Singh K. Kshitij: Presented a paper titled “Biomedical Innovation and IPR: Proprietary Claims vis-à-vis Open and Collaborative Model” in “the Second IP & Innovation Researchers of Asia (IPIRA) Conference” at Jakarta, Indonesia, organised as a collaboration between the Faculty of Law, Universitas Indonesia as a local host, Texas A&M University School of Law, University of Geneva, the World Intellectual Property Organisation (WIPO) and the World Trade Organisation (WTO) on February 27-28, 2020.

Singh, Seema: Co-Chaired a National Conference on “Kautilya and the Contemporary World- Economy, Strategy, Governance” by Kautilya International Foundation, Maharaja Agrasen University, H.P. and Competition Commission of India on February 28, 2020.

Singh, Seema: Delivered a lecture on invitation of Bureau of Parliamentary Studies and Training on the topic “Parliament in Constitutional Scheme” on 4th Sep.2019. Program was organized by the Special Commonwealth African Assistance Plan (SCAAP) and Indian Technical and Economic Cooperation (ITEC), the program of the Ministry of External Affairs, Government of India. 45 Participants from 17 countries participated in the program.

Singh, Seema: Invited as Resource Person and also Chaired a session in a National Seminar on “Emerging Laws & Crimes against Women: Challenges and Prospects” organized by Kalindi College, Delhi University on February 12, 2020.

Singh, Seema: Delivered a Lecture in Short Term Course on Gender Sensitization for the University and College teachers in CPDHE-HRDC, Delhi University on “Feminist Jurisprudence- The Way Ahead” on 13th Feb.2020.

Singh, Seema: Co-ordinator Refresher Course on “Law and Social Transformation” organized by CPDHE-HRDC, Delhi University from July15-27, 2019.

Singh, Seema: Delivered a Lecture in Faculty Induction Training Program on “Citizenship Amendment Act2019” organised by Faculty Development Centre, Iswar Saran PG College, Allahabad University on February 21, 2020.

Singh, Seema: Delivered a Lecture in Short Term Course on Gender Sensitization for the University and College teachers in CPDHE-HRDC, Delhi University on “How India Perceives Womanhood” on February 13, 2020.

Singh, Seema: Delivered a lecture on invitation of Indian Institute of Corporate Affairs on the topic “The Contribution of Role of Quasi-Judicial Bodies in the Justice Delivery System in India”, Participants were CCI Officers and Research Associates on January 31, 2020.

Singh, Seema: Delivered Lectures as Resource Person to University and College Teachers in Refresher Course in CPDHE, Delhi University on the topic of “Anti-Defection Law in the light of Latest Karnataka Political Crisis.” on July 25, 2019.

Singh, Seema: Invited as Resource Person to deliver lectures on the topic of “Inquiry by Domestic Tribunals” by Haryana Institute of Public Administration, Gurugram to ITS Officers on July8, 2019.

Singh, Seema: Participated as a Panellist in an International Conference on “Climate Change and Human Rights” organised by ‘The Juris EN Conference on International Law’ on February 9, 2020.

Singh, Seema: Participated as a Speaker in a lecture on “Citizenship Amendment Act, 2019 (Decoding CAA)” organized by Maharaja Agrasen Institute of Management Studies, IP University on January 21, 2020.

Singh, Seema: Participated as a Speaker in a talk on Moral Education organized National Association of Youths on January 4, 2020

Yadav, Anita: Presented a paper titled “Environmental Justice and International Law: Evaluating through a Human right- based approach” in two days national webinar on Future of Environmental Litigation in India, organised by CEERA, National Law School of India University, Bangalore on 7th and 8th August 2020.

Yadav, Anita: Presented a paper titled “The problem with homogenisation of disabled persons in Indian law” in one day International seminar on Human Rights and Person with Disabilities organised by India at Indian Law institute (ILI) in collaboration with Law Mantra, MNLU (Nagpur), National Law University and Judicial Academy Assam on January 11, 2020.

Yadav, Anita: Presented a paper titled “Understanding the implementation of clinical legal aid education in developed and developing countries” in the International Conference on Clinical Legal aid organised by Knowledge Steez on May 2, 2020.

Yadav, Anita: Presented a paper titled "From Discrimination to Genocide: Story of Forced Migration of Rohingya Muslims in Myanmar" in 4th national conference on Human Rights and Gender Justice organised by Knowledge Steez at Malviya Smriti Bhawan, New Delhi on January 19, 2020.

Yadav, Anita: A judge in 5th Prof. N. R. Madhava Menon SAARCLAW mooted competition organised by Lloyd Law College on February 22, 2020.

Yadav, Anita: Chaired Session as resource person in one day International seminar on Human Rights and Person with Disabilities organised by India at Indian Law institute (ILI) in collaboration with Law Mantra, MNLU (Nagpur), National Law University and Judicial Academy Assam on January 11, 2020.

Yadav, Anita: Chaired Session as resource person in one day International seminar on Child Rights and Women Empowerment organised by India at Indian Law institute (ILI) in collaboration with Law Mantra, MNLU (Nagpur), National Law University and Judicial Academy Assam on January 12, 2020.

Yadav, Anita: Presented a paper titled "Right to education of Prisoners' Children: A study on Prisons in Uttar Pradesh" in one day International seminar on Child Rights and Women Empowerment organised by India at Indian Law institute (ILI) in collaboration with Law Mantra, MNLU (Nagpur), National Law University and Judicial Academy Assam on January 12, 2020.

Yadav, Anita: Resource Person in Career Development for Law Students program at School of Law, Banasthali Vidyapith, on August 23, 2019.

Yadav, Suman: Chaired a Technical session at National Conference on Human rights and Gender organised by Knowledge Steez, Justice held on January 19, 2020.

Yadav, Suman: Chaired a Technical Session at the International Conference on "Spectrum of Opportunities in 2020- Legal and Management Era" organised by School of Management and Commerce (SOMC) and School of Legal Studies (SOLS) at K. R. Mangalam University, Gurugram on February 6, 2020.

Yadav, Suman: Invited as a resource person at an International Conference on Child Rights at Ansal University, Gurugram held on April 27, 2019.

Placement Details (Number and percentage of students placed)

Ten (10) Students of the Campus law Centre were provided with the Job Opportunities with KPMG, Bharucha & Partners, EY GDS, Wipro and Advocate Rajat Mathur in addition to around Thirty Five (35) Students who were provided with the internship opportunities with Senior Advocates, NGOs, top law firms and corporate houses such as Bharucha & Partners, Khaitan & Co., AZB and Partners, Nishith Desai Associates, ZEUS Law, Resolver India, P&A Law Firm, Flour Daniel India, Wadhwa Law Chambers etc.

Extension and Outreach Activities

Legal Aid Society

The Legal Aid Society of Campus Law Centre has been playing a very important role in educating and sensitizing the students about the importance of legal aid. The functional areas of Legal Aid Society have been divided into various groups like- Environmental protection, consumer protection, prison reforms, gender sensitization, victims of armed struggle, dramatics, slums, disabled/senior citizen, juvenile justice & child rights, mediation, right to information etc.

The following activities were undertaken by the Legal Aid Society in the period between April 2019-March 2020.

The Society organised three activities in April which include Workshop on Missing Children held in Seminar Hall, Campus Law Centre on April 1, 2019, World Health Day Awareness Drive at Majnuka Tila, Civil Lines on April 7, 2019, Legal cum Voting Awareness Drive at Chandni Chowk, Chawri Bazar, Old Delhi on April 18, 2019.

In the month of May two activities were organised, Labour Rights Awareness Drive at Beadonpura, Karol Bagh & IP Estate, on May 1, 2019, Prevention of Child Marriage Awareness Drive at Burari, North Delhi, from May 31 to June 3, 2019.

The activities organised in the month of June included Plantation Drive on World Environment Day, at Rajendra Nagar, Delhi, on June 4, 2018, Waste Management Drive at Rajendra Nagar, Delhi, on June 26, 2019.

In September two activities were organised. The Orientation/ Induction Programme of freshers who joined the society was organised on September 9, 2019 in the college itself. The society participated at the National Lok Adalat at Tiz Hazari Courts, Delhi, on September 9, 2019.

In the month of October 2019 the society organised 4 activities: Legal Awareness Drive at Timarpur (including Indira Basti and Sanjay Basti) on October 4, 2019, March cum Legal Awareness Drive at SKV Malka Ganj, Delhi, on October 11, 2019, Clean and Green March at Daryaganj, on October 18, 2019, and Legal Awareness Programme at Diwali Mela, Hindu College, on October 22, 2019.

In November, 2019 these activities were organised by Legal Aid Society: Para-Legal Volunteers Training, at the Seminar Hall, Campus Law Centre, from November 6-7, 2019, Screening of Documentary “The Price of Free” at the Seminar Hall, Campus Law Centre, on November 11, 2019, Drug De-addiction Awareness Drive at Christian Colony, Patel Chest, Delhi, on November 16, 2019, and Constitution Day Campaign at Tis Hazari Court on November 26, 2019.

In January 2020, six activities were organised by the society: Legal Awareness Drive and Fundamental Duties at MajnukaTila, Delhi, on January 9, 2020, Traffic Awareness Programme at Malka Ganj Chowk to Ghanta Ghar, Shakti Nagar, Delhi on January 15, 2020, Legal Awareness Drive and Fundamental Duties at Chandrawal, Delhi and Legal and Economically Weaker Section(EWS) & Disadvantaged Group (DG) Admission Awareness Drive, at Peer Bagichi and Andha Mughal, Delhi, on January 24, 2020, National Seminar, “Gandhi on Duties” at the Seminar Hall, Campus Law Centre, on January 30, 2020, and Seminar on “UN Human Rights Council and Human Rights Lawyering in India”, at the Seminar Hall, Campus Law Centre, on January 31, 2020.

In February, 2020 EWS/DG Online Admission Drive 2020 was organised on four different days for people from four different places of Delhi which included Shakti Nagar, Timarpur, Peer Bagichi and Andha Mughal, Gulabi Bagh, Kabir Basti. A Rescue drive was organised at New Delhi Railway Station and Connaught Place, on February 5, 2020. Three visits were organised which included Visit to Tihar Jail on February, 13 2020, Visit to Institute of Human Behaviour and Allied Sciences (IHBAS), Dilshad Garden, on February 20, 2020 and Visit to Juvenile Justice Board and Observation Homes, Kingsway Camp, Delhi on February 25, 2020.

In March Legal Aid Society organised Legal Aid Camp for Riot Victims at Karawal Nagar, Delhi from March 7-13, 2020. The society also Legal Aid and Awareness for Riot Victims at Shiv Vihar, Delhi from March 9-13, 2020.

Union and Sports Advisory Committee:

The committee works as the supervisory body of all students' union and sports activities. In the year 2019-20 the Student Unions, with the support and supervision the committee organized activities which included Bihar Flood Donation Drive on 1 October 2019, Blood Donation Drive on 15 October 2019, a Lecture by Advocate Prashant Bhushan on 18 October 2019, a Lecture by Ashok Arora, Secretary SCBC on 15 November 2019, a Lecture by Adv Brajesh Singh on 6 February 2020, and a Legal Conclave on 28 to 29 February 2020.

Faculty Strength

43 Permanent faculty members

16 Guests faculty

Other Significant Information

Under the Aegis of Debate and Discussion Society the following events were organized:

A new Student Executive Committee of Debate & Discussions Society for the year 2019-20 was formed on 18th September 2019.

Student Orientation Program was conducted on 24th September 2019 to the benefit of the incoming freshers to introduce them to the plethora of events conducted by the society. The orientation was followed by a discussion on Appointment of Judges.

A Student Working Committee of incoming freshers was constituted and several 1st year students were inducted into the working committee thereby engaging them in various activities of the society.

CLC's flagship Intra College Debating Platform, TCOP 3 officially kicked off the academic year 2019-20 by debating on "Abrogation of article 370". TCOP 4 was on 'Inclusion of the word "Secularism" in the constitutional fabric of India'.

Debate & Discussions Society, Campus Law Centre was exclusively invited by Rajya Sabha TV to be part of Televised Panel Discussion commemorating 250th session of Rajya Sabha on 18th November in the front lawns of Parliament of India. The panel was graced with presence of noted erudite career parliamentarians and stalwarts of Indian polity - Mr. Abhishek Manu Singhvi (INC), Mr. D Raja (CPI), Mr. K Keshava Rao (TRS), Mr. Vinay Shashirabudhhe (BJP) & Mr. A Surya Prakash (Chairperson of Prasar Bharati).

Debate & Discussions Society embarked on a new journey with CLC Town Hall - which will be a standalone platform of CLC to host Town Hall-styled discussion on topics that are not confined to bipolar assertions and dwells in complexities of ideas and opinions beyond the confines of Black & White. CLC Town Hall was launched on 18th November 2019, where NRC was the Topic of choice. The stage was graced by learned panel of speakers - Mr. Upmanyu Hazarika; Mr. Sandeep Mahapatra; Mr. Mohsin Alam Bhat; Mr. D K Dubey. The esteemed panel was moderated by Ms. Anumeha Mishra.

CLC Pluggedin - CLC's first & most dominant blogosphere is administered through a dedicated Editorial Team headed by Dr. Sujith Koonan. The editorial process is carried out round the year with rolling entries coming from students across the board and also from noted Guest writers in the legal field.

LAW CENTRE-I

Major Activities and Achievements

Law Centre – I, Faculty of Law has been at the forefront of academic, and co-curricular activities during 2019-20 under the able leadership and guidance of Professor in Charge, Prof. (Dr.) Sarbjit Kaur. This

academic session, Law Centre – I celebrated its golden jubilee as it completed fifty years of teaching and research. To commemorate the golden jubilee, the Centre initiated a series of academic and co-curricular activities, such as the Lecture Series on International Law, Career-oriented Lecture Series, and National Seminar on Laws of Environment. On the co-curricular front, the Legal Services Society (LSS) of LC-I has been actively engaged in providing legal aid and awareness to people in Delhi. The Paralegal Volunteers (PLVs) have been working very closely with the Delhi State Legal Services Authority (DSLISA) and have successfully executed several projects assigned to them by DSLISA. Further, the Gender Sensitization Committee has organized National Level Nukkad Natak competition to spread awareness regarding gender inclusiveness among the masses.

Honours / Distinctions

Amit Kumar Sinha has been awarded the prestigious Young Scholar Award (Second Prize) by the Asian Society of International Law, and Cambridge University Press, for his article ‘Non-Precluded Measures Provisions in Bilateral Investment Treaties of South Asian Countries’ published in Volume 7, Issue 2 of the Asian Journal of International Law.

Publications

Ajit, Amrendra Kumar (2020). Human Gene Patenting: Issues of Identity and Related Rights. In V.K Ahuja and Archa Vashishtha (eds.) Intellectual Property Rights: Contemporary Developments. 93-110. New Delhi: Thomson Reuters.

Anand, Pushkar and Varsha Singh (2019). India and International Dispute Settlement – Some Reflections on India’s Participation in International Courts and Tribunals. In Avidan Kent, Nikos Skoutaris and Jamie Trinidad (eds.), *The Future of International Courts – Regional, Institutional, and Procedural Challenges*. 37-54. London: Routledge.

AO, Moatoshi (2019), *A Treatise on Customary and Fundamental Laws of the Nagas in Nagaland*. New Delhi: Notion Press.

Ranjan, Prabhash and Pushkar Anand (2018). Indian Courts and Bilateral Investment Treaty Arbitration, *Indian Law Review* Vol. 4(2). 199-220.

Verma, Shivani (2019). *Criminology, Penology and Victimology*. New Delhi: University Book House.

Journal Published by the Centre – 01

Journal of Law Teachers of India, Vol. 8, No. 1, 2018-19 (published in 2019).

Number of teachers serving as Editor(s)/Member(s) of Editorial Board - 6

Faculty Strength: 56

LAW CENTRE- II

Major Activities and Achievements

Law Centre II has lived up to its expectations of being an active research and teaching institution. The bygone year saw setting up of the Delhi Legal Service Clinic, holding of Udghosh - The Youth Parliament. Our institution also had the occasion to host various talks by eloquent and eminent speakers like Padma Bhushan Awardee, Prof. Ved P. Nanda, His Excellency of Surinam, Chairperson of Punjab Human Rights Commission, Director, National Institute of Social Defence, Government of

India, scholars of LSE, London to name a few. The Centre organized the International Conference on Mediation in collaboration with MCPC, Supreme Court of India and the prestigious S. K. Puri International Moot Court competition.

Publications

Ahuja, V.K. (2019). *Human Rights: Contemporary Issues - A Festschrift in the Honour of Professor Upendra Baxi*, Delhi. NCT: Eastern Book Company.

Ahuja, V.K. (2019). Human Rights Approach to Intellectual Property Rights in *Human Rights: Contemporary Issues - A Festschrift in the Honour of Professor Upendra Baxi*. Delhi, NCT: Eastern Book Company. 51-75.

Jha, A. (2020). *International Criminal Law: Theory and Practice*. New Delhi: Satyam Law International. ISBN No. 978 -938-783-9427 (Print).

Chapters/Articles

Sonawane, A.B. (2020). Judicial Approach towards Fundamental Rights: A Transformative Constitutionalism, *Scholarly Research Journal for Interdisciplinary Studies*, 8, 43, January-March, 35-38.

Journals Published by the Department

Delhi Journal of Contemporary Law, Volume II (2019)

Conferences Organized

International Conference on Mediation in collaboration with MCPC, Supreme Court of India on April 6-7, 2019.

Seminar/Conference/Presentations

Special Lectures

Ahuja, V.K.

Spoke on 'Intellectual Property Rights and Human Rights', Faculty Development Program at Hansraj College, University of Delhi; January 24, 2020.

Spoke on 'Human Rights and IPRs', Department of Zoology, Hansraj College, University of Delhi; February 10, 2020.

Extension and Outreach Activities - 07

A Plantation drive was organized at Law Centre-II on September 25, 2019 in association with Kalyan Foundation.

20 Students from Law Centre II with faculty members Mr. Akshay Verma made a visit to the Rohini Jail on November 6, 2019.

60 Students from Law Centre-II made a visit to the Mandoli Jail on November 6, 2019.

The legal aid Society organised a community outreach programme on February 14, at the Government boys school, Roop Nagar.

The Legal Aid Society successfully held its Community Outreach Programme in Mukeempura area, near Malkaganj, North Delhi on January 31, 2020.

On 29 January 2020, 54 students visited the National Human Rights Commission.

On February 7, 2020, 80 students of Law Centre-II visited the Delhi Vidhan Sabha.

Faculty Strength – 45

Other Significant Information

The Centre established a Legal Service Clinic.

Ms. Irwin Hnamte was awarded 2nd Best Speaker in the oral presentation session in One – Day National Seminar Food and Culture of North East – Solutions to Sustainable Development held by Vivekananda College, University of Delhi on 22nd August, 2019. She spoke on *Protection of Traditional Knowledge (TK) and Traditional Cultural Expressions of Indigenous Peoples of Northeast India*.

Dr. Jupi Gogoi was awarded Ph.D in November 2019, Gujrat National Law University, Gandhinagar.

Team Law Centre II won the Runners Up (2nd position) in XIth Hidayatullah National Memorial Moot Court Competition (19th - 20th October, 2019).

Ms. Shubha Sharma was adjudged as the Best Researcher amongst 32 teams post the Memorial Round in IVth National Moot Court Competition, Faculty of Law, Law College, Uttaranchal University (October 4-6, 2019).

Ms. Sasmitha K. of 1st year won the first prize in 1st National Online Memorial Writing Competition organized by Saveetha School of Law, Chennai.

Udghosh -The Youth Parliament was the maiden youth parliament organized on March 8-9, 2019.

Sports Fest, 'Oorja 19' was organized on March 28-29, 2019.

Sports Fest, 'Spardha 19' was organized on November 26, 2019.

Anupam Jha organized a Training Session for the 240 Students of Legal Aid Society on 4-15 November, 2019.

Anupam Jha organized a lecture on 'Subsidies and Dumping: India's Concerns', under the auspices of 3rd LC-II Lecture series supported by Legal Aid Society of LC-II on November 28, 2019.

FACULTY OF MANAGEMENT STUDIES

Major activities and achievements

The Faculty of Management Studies, University of Delhi (FMS) is one of the top management schools in India, enjoying a reputation for excellence both nationally and internationally. FMS attracts the brightest students from all parts of the country, from diverse academic backgrounds ranging from engineering to liberal arts. The students admission policy of FMS positively promotes diversity in terms of gender and socio-economic background. All MBA students are given the opportunity to intern with the most prominent companies in India. FMS is renowned both for the quality of its teaching and for its business and practitioner oriented research. FMS enjoys an enviable

student placement record. Apart from the full time MBA program, FMS conducts the MBA Executive program, the MBA Health Care Administration program, and the Doctoral program. Alumni from FMS occupy top positions in all walks of life including business, academics, administration, policy making and public life, in both the national and international spheres.

Publications

Agarwala, T., A.Arzkuren-Eleta, E.Del Castillo, M. Muniz-Ferrer (2020) Work-family culture and organizational commitment: a multidimensional cross-national study. *Personnel Review* (special issue) early cite.

Bardhan, A. K., & Kumar, K. (2018). Restructuring Primary Health Care Network to Maximize Utilization and Reduce Patient Out-of-pocket Expenses. *Asian Journal of Innovation and Policy*, 8, 122-140.

Bardhan, A. K., Kumar, K., & (2020). A choice-based model to reduce primary care load on tertiary hospitals. *International Journal of Management Science and Engineering Management*, 15(3), 155-164.

Das, D., Kumar, V., Bardhan, A.K., Kumar, R. (2019), "Designing a framework of power procurement for a power distribution utility: a case study", *International Journal of Energy Sector Management*, Vol. 13, No.4, pp. 1063 – 1087.

Das, D., Bonde, K.M. (2019), "Development of an integrated framework for facility relocation problem: a case study", *International Journal of Supply and Operations Management*, Vol. 6, No. 4, pp. 315 – 333.

Das, D., Kumar, R., Rajak, M.K. (2020), "Designing a reverse logistics network for an ecommerce firm: a case study", *Operations and Supply Chain Management*, Vol. 13, No.1, pp. 48 – 63.

Das, D., Kumar, V., Bardhan, A. K., & Kumar, R. (2019). Designing a framework of power procurement for a power distribution utility: a case study. *International Journal of Energy Sector Management*.

Dey, S. & Kaur, P., (2019). Social Efficiency of Microfinance Institutions in India: A Data Envelopment Analysis. *Effulgence*, 17 (2), 58-76.

Gupta, G. and Verma, A. (2019), 'Social Media Usage Intensity: Impact Assessment on Buyers' Behavioural Traits', *FIIB Business Review* (Sage), Vol. 8, Issue 2, pp. 1–11

Gupta, G, Vishwanathan, P., and Singh, A. (2020), 'The Role of Social Influence and e-Service Quality in Impacting Loyalty for Online Life Insurance: A SEM-based Study', *International Journal of Business Excellence* (Inderscience Publishers), Vol. 20, No. 3, pp. 322-337

Gupta, G. and Vishwanathan, P. (2020), 'Quality-Satisfaction-Loyalty Linkage and Switching Costs: Findings in the Context of Online Life Insurance', *International Journal of Business Excellence* (Inderscience Publishers), Vol. 21, No. 1, pp. 1-16

Gupta, G. and Nagpal, S. (2020), 'Green Attributes and Customer-Based Brand Equity: Synthesis and Examination of Banking Services', *NMIMS Management Review* (ISSN: 0971-1023), Vol. 38, No.2, pp. 93-109.

Gupta, G. and Srivastava, M. (2020), Green Efforts and Sustainable Development: A Review of India and the World Scenario', *The Orissa Journal of Commerce* (ISSN-0974-8482), Vol. 41, No.1, pp. 43-54.

Kalsie Anjala & Pandey Jaya (2020), Measurement of Euro zone crisis for PIIGS Nations: Through Composite Indexes Approach, Transnational Corporation Review, pp1-16

Kalsie Anjala & Ashima Arora, 2019, Structural break, US financial crisis and Macroeconomic Time Series: Evidence from BRICS Economies, Transnational Corporation Review Vol 11 No 3, pp 250-264.

Vohra, A., & Bhardwaj, N. (2019). 'Customer engagement in an e-commerce brand community: An empirical comparison of alternate models. Journal of Research in Interactive Marketing, Vol. 13, Issue-1, 2-25

Journals

Kalsie Anjala, Editorial Board: Member of Journal of Advances in Management Sciences & Information Systems ISSN 2371-1647

Suneja V: Editorial Board : Member, , Amity Journal of Economics

Suneja V: Editorial Board : Member, , Amity Journal of Management

Research Projects

Agarwala T. Co-investigator & Member Central Co-ordinating Team "Scoping the path to leadership in health research in India" by INCLIN and supported by the Wellcome Trust London

Sengupta Singh Sunita, Awarded ICSSR sponsored research project on "Vedic Foundations of Indian Management. The duration of project is two years.

Conferences Organized

Sengupta Singh Sunita, Organized an International Conference on EMPOWERING METHODOLOGIES IN INDIAN MANAGEMENT RESEARCH during December 16-17, 2019 as a part of UKIERI –UGC Research Project.

Placement Details (Number and percentage of student placed)

Number and percentage of students placed: 198 & 100 %

Number of Companies visited for campus recruitment: 129

Extension and Outreach Activities

Adopted a village (Ramnagar, Haryana)

Organised blood donation camps

Organised flood relief campaigns

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.:16

Faculty Strength : Nineteen (in post)

FACULTY OF MATHEMATICAL SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

Major Activities and Achievements

The Department offers two post graduate Degree Programmes MCA & M.Sc. Computer Science. The Department started a three year Master of Computer Applications (MCA) programme in the year 1982 & M.Sc. Computer Science course in the year 2004 with the aim to develop core competence in Computer Science and prepare the students to carry out development work, as well as take up challenges in research.

Journal Publications

1. Duari S, Bhatnagar V (2020). Complex Network based Supervised Keyword Extractor. Expert Systems with Applications,140, p. 112876. DOI: 10.1016/j.eswa.2019.112876.
2. Duari S, Bhatnagar V (2019), sCAKE: Semantic Connectivity Aware Keyword Extraction, Information Sciences,477,100-117. <https://doi.org/10.1016/j.ins.2018.10.034>
3. Saxena R, Kaur S, Bhatnagar V (2019), Identifying similar networks using structural hierarchy, Physica A: Statistical Mechanics and its Applications, 536. <https://doi.org/10.1016/j.physa.2019.04.265>.

Placement Details (Number and percentage of students placed)

- Number and percentage of students placed: Total number of students are 80, placed 59 students 73.75%
- Number of Companies visited for campus recruitment: 24

Research Project

1. DST, 2020-2023, Text Analytics using Multilayer Networks, Six Lakhs and Sixty thousand.

Faculty Strength

Permanent-5

Ad-hoc- 4

Other Significant Information

Students of the Department of Computer Science launched the Ninth edition of the magazine “SRIJAN” both online and in print in the Thirteenth year of Sankalan.

DEPARTMENT OF MATHEMATICS

Major Activities and Achievements

The Department is supported by UGC-DSA I, DST-PURSE and DST-FIST grants and offers M.A./M.Sc. and M.Phil/Ph.D. programs in Mathematics. The Department is ranked 10th in QS World University Rankings in India in 2020.

The faculty members have published around 46 research papers in journals of international repute during 2019-20. Department organized National Centre for Mathematics Workshop (NCMW) on “Sheaf Theory, Sheaf Cohomology and Spectral Sequences” during November 18-30, 2019 apart from lectures by eminent researchers.

Honours/Distinctions

C. S. Lalitha was a member of the selection committee for choosing ORSI Fellows of 2019.

Publications

Abdal, S.M. & Kumar, S. (2020). Approximate controllability of semilinear system involving state-dependent delay via fundamental solution. *Ricerche di Matematica*, 69(1), 261-282.

Ambethkar, V. & Basumatary, L. R. (2019). Solution of viscous flow in a rectangular region by using the hybrid finite volume scheme. *Journal of Applied Mathematics and Computational Mechanics*, 18(3), 17-30.

Ambethkar, V. & Basumatary, L. R. (2019). Numerical solutions of steady free convective flow in a rectangular region with discrete wall heat and concentration sources. *Journal of Applied Mathematics and Computational Mechanics*, 18(4), 5-18.

Das, P. & Das, T. (2020). Topologically stable measures in non-autonomous systems. *Communications of the Korean Mathematical Society*, 35(1), 287-300.

Das, P. & Das, T. (2020). Stable group actions on uniform spaces. *Topology Proceedings*, 56, 71-83.

Gaur, A. & Kumar, R. (2019). Maximal non ϕ -chained rings and maximal non chained rings. *Results in Mathematics*, 74(3). doi.org/10.1007/s00025-019-1043-6

Gupta, V. P. & Jain, R. (2020). On Banach space projective tensor product of C^* -algebras. *Banach Journal of Mathematical Analysis*, 14, 524-538.

Gupta, V.P., Jain, R. & Talwar, B. (2020). On closed Lie ideals of certain tensor products of C^* -algebras II. *Mathematische Nachrichten*, 293 (1), 101-114.

Jain, R. (2020). Automorphisms of the Banach space projective tensor product of C^* -algebras, *Archiv der Mathematik*, 114, 677-686.

Kansal, A., Kumar, A., & Rajpal, V. (2020). Inductive Limit in the Category of TRO. *Annals of Functional Analysis*, 11, 748-760.

Karuna & Lalitha, C.S. (2019). External and internal stability in set optimization using gamma convergence, *Carpathian Journal of Mathematics*, 35(3), 393-406.

Kumar, A. & Srivastava, S. (2019). Supercyclic C_0 -semigroups, stability and somewhere dense orbits. *Journal of Mathematical Analysis and Applications*, 476(2), 539–548.

Kumar, D. & Kumar, S. (2019). Some new periodic solitary wave solutions of (3+1)-dimensional generalized shallow water wave equation by Lie symmetry approach. *Computers & Mathematics with Applications*, 78(3), 857-877.

Kumar, R. & Gaur, A. (2020). Three open questions on residually small rings. *Rocky Mountain Journal of Mathematics*, 50(1), 177-180.

- Kumar, R. & Gaur, A. (2020). Maximal non λ -subrings. *Czechoslovak Mathematical Journal*, 70(2), 323-337.
- Kumar, R. & Gaur, A. (2019). λ -rings, ϕ - λ -rings, and ϕ - Δ -rings, *Filomat*, 33(16), 5125–513.
- Kumar, S. & Kumar, A. (2019). Lie symmetry reductions and group invariant solutions of (2+1)-dimensional modified Veronese web equation. *Nonlinear Dynamics*, 98(3), 1891–1903.
- Kumar, S., Kumar, M. & Kumar, D. (2019). Computational soliton solutions to (2+1)-dimensional Pavlov equation using Lie symmetry approach. *Pramana-Journal of Physics*, 94, Article ID 0028.
- Kumar, S., Kumar, D. & Wazwaz, A.M. (2019). Group invariant solutions of (3+1)-dimensional generalized B-type Kadomtsev Petviashvili equation using optimal system of Lie subalgebra. *Physica Scripta*, 94(6), 1402-4896.
- Kumar, S. & Kumar, D. (2019). Solitary wave solutions of (3+1)-dimensional extended Zakharov-Kuznetsov equation by Lie symmetry approach. Published in the *Computers & Mathematics with Applications*, 77(8), 2096-2113.
- Kumar, S., Wazwaz, A. M., Kumar, D. & Kumar, A. (2019). Group invariant solutions of (2+1)-dimensional rdDym equation using optimal system of Lie subalgebra, *Physica Scripta*, 94(11).
- Kumari, P., Kumar, A. & Trisandhaya, P. (2019). Calibration estimators for quantitative sensitive mean estimation under successive sampling. *Communications in Statistics – Theory and Methods* doi.org/10.1080/03610926.2019.1649430
- Madaan, V., Kumar, A. & Ravichandran, V. (2020). Radii of starlikeness and convexity of some entire functions. *Bulletin of the Malaysian Mathematical Sciences Society*. doi.org/10.1007/s40840-020-00925-8
- Madaan, V., Kumar, A. & Ravichandran, V. (2019). Lemniscate convexity and other properties of generalized Bessel functions. *Studia Scientiarum Mathematicarum Hungarica*, 56(4), 404-419.
- Madaan, V., Kumar, A. & Ravichandran, V. (2019). Starlikeness associated with lemniscate of Bernoulli. *Filomat*, 33(7), 1937–1955. doi.org/10.2298/FIL1907937M
- Prajapati, T., Sinha, K.B. & Srivastava, S. (2019). Lyapunov property of positive C_0 -semigroups on non-commutative L_p spaces. *Operators and Matrices*, 13(4), 907–919.
- Rai, P. & Sharma, K.K. (2020). Numerical approximation for a class of singularly perturbed delay differential equations with boundary and interior layer (s), *Numerical Algorithms*, 1-24.
- Rastogi, S. & Srivastava, S. (2019). Non-analytic growth bounds and delay semigroups. *Semigroup Forum*, 99(3), 788–813.
- Salman, M. & Das, R. (2019). Furstenberg family and multi-sensitivity in non-autonomous systems. *Journal of Difference Equations and Applications*, 25 (12), 755-767.
- Salman, M. & Das, R. (2019). Dynamics of weakly mixing nonautonomous systems. *International Journal of Bifurcation and Chaos*, 29(9). doi.org/10.1142/S0218127419501232
- Shah, S., Das, T. & Das, R. (2020). Distributional chaos on uniform spaces. *Qualitative Theory of Dynamical Systems*, 19(1), 4.

- Shah, S. & Singh, R. (2019). Propagation of non-planar weak and strong shocks in a non-ideal relaxing gas. *Ricerche di Matematica*, doi.org/10.1007/s11587-019-00472-w
- Shah, S. & Singh, R. (2019). Imploding shocks in real reacting gases with dust particles. *Journal of Mathematical Physics*. 61, doi.org/10.1063/1.5142327
- Shah, S. & Singh, R. (2019). Evolution of singular surface and interaction with a strong shock in reacting polytropic gases using Lie group theory. *International Journal of Non-Linear Mechanics*, 116, 173-180.
- Shah, S. & Singh, R. (2019). Collision of a steepened wave with a blast wave in dusty real reacting gases. *Physics of Fluids*, 31(7),. doi.org/10.1063/1.5109288
- Sharma, A. & Gaur, A. (2019). Maximal labeling of graphs, *Discrete Mathematics, Algorithms and Applications*, 11(4),.
- Sharma, K.K., Rai, P. & Mishra, P. (2019), A robust numerical scheme for singularly perturbed delay differential equations with turning point. *International Journal for Computational Methods in Engineering Science and Mechanics*, 20(5), 423-433.
- Singh, M., & Patel, A. (2019) Shock wave structure in a non-ideal gas under temperature and density-dependent viscosity and heat conduction. *Theoretical Computational Fluid Dynamics*, 33(6), 537--559.
- Thakur, R., & Das, R. (2020). Strongly Ruelle-Takens, strongly Auslander-Yorke and Poincare chaos on semiflows. *Communications in Nonlinear Science and Numerical Simulation*, 81.
- Thakur, R., & Das, R. (2019). Stronger forms of sensitivity on product dynamical system via Furstenberg families. *Studia Scientiarum Mathematicarum Hungarica*, 56(4), 440-453.
- Trisandhaya, P., Kumari, P. & Kumar, A. (2020). Application of item sum technique for estimating quantitative sensitive mean on successive moves using auxiliary information. *Communications in Statistics - Simulation and Computation*. doi.org/10.1080/03610918.2020.1722839
- Vasisht, R. & Das, R. (2020). Furstenberg families and transitivity in non-autonomous systems. *Asian-European Journal of Mathematics*, 13 (1).
- Vasisht, R. & Das, R. (2019). Induced dynamics in hyperspaces of non-autonomous discrete systems. *Filomat* 33(7), 1911-1920.
- Vasisht, R. & Das, R. (2019). A note on F -sensitivity for non-autonomous systems. *Journal of Difference Equations and Applications*, 25 (2019), 548-559.
- Verma, G., Vashisht, L.K. & Singh, M. (2019). On excess of retro Banach frames. *translated from Izv. Nats. Akad. Nauk Armenii Mat. Journal of Contemporary Mathematical Analysis*, 54(3), 143-146.
- Yadav, S., Rai, P. & Sharma, K.K. (2019). A higher order uniformly convergent method for singularly perturbed parabolic turning point problems, *Numerical Methods for Partial Differential Equations*, doi.org/10.1002/ num.22431

Research Projects

Atul Gaur was awarded DST-SERB (MATRICS Scheme), 2019-21 (Three Years), *On Some Ring Extensions*, Rs. 6,60, 000/-

C.S. Lalitha was awarded DST-SERB (MATRIC scheme) project, 2018-21 (Three Years), *Scalarization Aspects in Vector and Set Optimization*, Rs. 6,60,000/-

H.K. Singh was awarded DST-SERB (MATRICS Scheme), 2018-21 (Three Years), *Finite Group Actions on Product of Spaces of Type (0,0) and Borsuk-Ulam Type Theorem for Product of Projective Spaces*, Rs 6,60,000/-

H.K. Singh awarded DST-SERB (EMR Scheme), 2018-21 (Three Years), *Index of Finitistic Spaces and Transformation Groups on Projective Space*, Rs 17,51,970/-

Sachi Srivastava was awarded DST-SERB (MATRIC scheme) project, 2020-23 (Three Years), *Quantum Dynamical Semigroups and Perturbations*, Rs. 6,60,000/-

Placement Details (Number and percentage of students placed)

Total 18 students were placed out of 66 students registered with placement cell. 11 companies invited for placement with the average annual package was 6.01 lacs per annum.

Number of M.Phil./Ph.D. Awarded

Ph.D. :19

M.Phil. :14

Faculty strength: Permanent 20

DEPARTMENT OF OPERATIONAL RESEARCH

Major Activities and Achievements

Department of Operational Research since its inception has established itself as a leading centre for education and research in the area of optimization and data analytics. To ensure a holistic development of the students, apart from regular teaching and research, the department organizes a wide range of scholarly activities every year as mentioned below.

The Department on regular basis organizes both student oriented and research oriented workshops/conferences/seminars. During 2019-20, the department has organized seminars and workshops on “Art of winning with Data Science”, “Data Science Symposium”, “Analytics Colloquy”, “Emotional Intelligence”, “Data Science Workshop using Python: A case study driven approach”, “Bridging gap between industry and Academia” and “Pre Alumni Workshop on Consumer Sciences”. Eminent speakers from industry and academic institutions interacted with students and faculty and delivered lectures.

Publications

Agarwal, M., Anand, A., Bansal, G., Pathak, J. P. (2019). Innovation diffusion process based on market coverage under dynamic environment. *Nonlinear Studies*, 26(3), 517-525.

Anand, A., Bhatt, N., Alhazmi, O. H. (2020). Modeling software vulnerability discovery process inculcating the impact of reporters. *Information Systems Frontiers*, DOI: 10.1007/s10796-020-10004-9.

- Anand, A., Aggarwal, R., Singh, O. (2019). Using weibull distribution for modeling bimodal diffusion curves: a naive framework to study product life cycle. *International Journal of Innovation and Technology Management*, 16(07), 1-17.
- Anand, A., Das, S., Agarwal, M., Yadavalli, V. S. S. (2019). Optimal scheduling policy for a multi-upgraded software system under fuzzy environment. *Journal of Mathematical and Fundamental Sciences*, 51(3), 278-293.
- Anand, A., Das, S., Singh, O., Kumar, V. (2019). Resource allocation problem for multi versions of software system. In *2019 Amity International Conference on Artificial Intelligence* (pp. 571-576). IEEE.
- Anand, A., Deepika, Singh, O. (2019). Formulation of error generation-based srgms under the influence of irregular fluctuations. In *System Performance and Management Analytics* (pp. 103-117)., Singapore, Springer.
- Anand, A., Singhal, S., Singh, O. (2019). Optimal advertising duration for profit maximization. *Journal of Management Analytics*, 7(3), 458-480.
- Anand, A., Aggarwal, R., Singh, O. (2019). Using weibull distribution for modeling bimodal diffusion curves: a naive framework to study product life cycle. *International Journal of Innovation and Technology Management*, 16(07), 1-17.
- Bardhan, A. K., Kumar, K. (2019). Restructuring primary health care network to maximize utilization and reduce patient out-of-pocket expenses. *Asian Journal of Innovation and Policy*., 8(1), 122-140.
- Bhatt, N., Anand, A., Aggrawal, D. (2019). Improving system reliability by optimal allocation of resources for discovering software vulnerabilities. *International Journal of Quality & Reliability Management*, DOI: 10.1108/IJQRM-07-2019-0246.
- Chen, W., Li, Si-Si, Zhang, J., Mehlawat, M. K. (2020). A comprehensive model for fuzzy multi-objective portfolio selection based on DEA cross-efficiency model. *Soft Computing*, 24, 2515-2526.
- Das, S., Anand, A., Agarwal, M., Ram, M. (2020). Release time problem incorporating the effect of imperfect debugging and fault generation: an analysis for multi-upgraded software system. *International Journal of Reliability, Quality and Safety Engineering*, 27(02).
- Gautam, P., Kishore, A., Khanna, A., Jaggi, C. K. (2019). Strategic defect management for a sustainable green supply chain. *Journal of Cleaner Production*, 233, 226-241.
- Gupta, P., Mehlawat, M. K., Khaitan, A., Pedrycz, W. (2020). Sentiment analysis for driver selection in fuzzy capacitated vehicle routing problem with simultaneous pick-up and drop in shared transportation. *IEEE Transactions on Fuzzy Systems*, DOI: 10.1109/TFUZZ.2020.2970834.
- Gupta, P., Mehlawat, M.K., Mahajan, D. (2019). Multi-objective optimization framework for software maintenance, component evaluation and selection involving outsourcing, redundancy and customer to customer relationship. *Information Sciences*, 483, 21-52.
- Gupta, P., Mehlawat, M. K., Yadav, S. Kumar, A. (2019). A polynomial goal programming approach for intuitionistic fuzzy portfolio optimization using entropy and higher moments. *Applied Soft Computing*, 85, Article 105781(29 pages).

- Gupta, V., Kumar, R. (2019). An optimal rejuvenation scheme for improving VoIP service reliability in the existence of resource exhaustion and security breaches. *International Journal of Reliability and Safety*, 13(3), 166-178.
- Irshad, M. S., Anand, A., Agarwal, M. (2020). Modeling active life span of youtube videos based on changing viewership-rate. *Investigación Operacional*, 41(2), 249-262.
- Irshad, M. S., Anand, A., Bisht, M. (2019). Modelling popularity dynamics based on youtube viewers and subscribers. *International Journal of Mathematical, Engineering and Management Sciences*, 4(6), 1508-1521.
- Kapur, P. K., Panwar, S., Kumar, V., Singh, O. (2020). Entropy-based two-dimensional software reliability growth modeling for open-source software incorporating change-point. *International Journal of Reliability, Quality and Safety Engineering*, 27(5).
- Kapur, P. K., Panwar, S., Singh, O., Kumar, V. (2019). Joint optimization of software time-to-market and testing duration using multi-attribute utility theory. *Annals of Operations Research*, 1-28. DOI: 10.1007/s10479-019-03483-w.
- Kapur, P. K., Panwar, S., Singh, O. (2019). Modeling two-dimensional technology diffusion process under dynamic adoption rate. *Journal of Modelling in Management*. 14(3), 717-737.
- Kaur, J., Anand, A., Singh, O. (2019). Modeling software vulnerability correction/fixation process incorporating time lag. In *Recent Advancements in Software Reliability Assurance* (pp. 39-58). Boca Raton, FL: CRC Press.
- Khanna, A., Gautam, P., Sarkar, B., Jaggi, C. K. (2020). Integrated vendor-buyer strategies for imperfect production systems with maintenance and warranty policy. *RAIRO-Operations Research*, 54(2), 435-450.
- Khanna, A., Kishore, A., Sarkar, B., Jaggi, C. K. (2020) Inventory and pricing decisions for imperfect quality items with inspection errors, sales returns, and partial backorders under inflation. *RAIRO-Operations Research*, 54(1), 287-306.
- Khanna, A., Pritam, P., Jaggi, C. K. (2020). Optimizing Preservation Strategies for Deteriorating Items with Time-Varying Holding Cost and Stock-Dependent Demand. *Yugoslav Journal of Operations Research*, 30(2), 237-250.
- Kishore, A., Gautam, P., Khanna, A., Jaggi, C. K. (2019). Investigating the effect of learning in set-up cost for imperfect production systems by utilizing two-way inspection plan for rework under screening constraints. *Scientia Iranica*, DOI: 10.24200/SCI.2019.51333.2120.
- Krishankumar, R., Ravichandran, K.S., Kar, S., Gupta, P., Mehlawat, M. K. (2019). Interval-valued probabilistic hesitant fuzzy set for multi-criteria group decision-making. *Soft Computing*, 23, 10853-10879.
- Lalropuia, K. C., Gupta, V. (2020). A Bayesian game model and network availability model for small cells under denial of service (DoS) attack in 5G wireless communication network. *Wireless Networks*, 26, 557-572.
- Mehlawat, M. K., Gupta, P., Kumar, A., Yadav, S., Aggarwal, A. (2020). Multi-objective fuzzy portfolio performance evaluation using data envelopment analysis under credibilistic framework. *IEEE Transactions on Fuzzy Systems*, DOI: 10.1109/TFUZZ.2020.2969406.

Mehlawat, M.K., Kannan, D., Gupta, P., Aggarwal, U. (2019). Sustainable transportation planning for a three-stage fixed charge multi-objective transportation problem. *Annals of Operations Research*, DOI: 10.1007/s10479-019-03451-4.

Panwar, S., Kapur, P. K., Singh, O. (2020). Modeling technology diffusion: a study based on market coverage and advertising efforts. *International Journal of System Assurance Engineering and Management*, 11, 154-162.

Singh O., Panwar S., Kapur P. K. (2020). Determining software time-to-market and testing stop time when release time is a change-point. *International Journal of Mathematical, Engineering and Management Sciences*, 5(02), 208-224.

Singhal, S., Anand, A., Singh, O. (2019). Understanding multi-stage diffusion process in presence of attrition of potential market and related pricing policy. *Yugoslav Journal of Operations Research*, 29(3), 393-413.

Srivastava, P.W., Manisha, and Manju Agarwal (2020) Optimal constant-stress ADDT plan with one main effect and one interaction effect, *International Journal of Quality & Reliability Management*, DOI: 10.1108/IJQRM-05-2019-0142.

Srivastava, P.W., Manisha, (2020) . Optimal design of accelerated degradation test plan under modified ramp-stress loading. *International Journal of Reliability and Safety*, 14(1), 39-57.

Srivastava, P.W., Gupta, T. (2019). Copula based constant-stress PALT using tampered failure rate model with dependent competing risks. *International Journal of Quality & Reliability Management*, 36(4), 510-525.

Srivastava, P.W., Manisha, (2019). Triangular cyclic accelerated degradation zero-failure test plan. *International Journal of Quality & Reliability Management*, 36(3), 358-377.

Number of Department Teachers serving as Editor(s)/Member(s) of Editorial Board

Professor Chandra K. Jaggi

Chief-Editor, *International Journal of Scientific Research in Mathematical and Statistical Sciences*, Published by International Scientific Research Organization for Science, Engineering & Technology.

Associate Editor, *OPSEARCH*, Operational Research Society of India, Springer.

Associate Editor, *International Journal of Systems Assurance Engineering and Management*, Springer.

Associate Editor, *The Gstf Journal of Mathematics, Statistics and Operations Research*.

Member, Editorial Board, *International Journal of Systems Science: Operations & Logistics*, Taylor & Francis Group Ltd.

Member, Editorial Board, *International Journal of Services Operations and Informatics*, Inderscience Publishers Ltd.

Member, Editorial Board, *American Journal of Operational Research*, Scientific and Academic Publishing.

Member, Editorial Board, *International Journal of Enterprise Computing And Business Systems*.

Member, Editorial Board, *Research Journal of Management Sciences*, International Science Congress Association.

Professor Pankaj Gupta

Associate Editor, Information Sciences (Elsevier).

Associate Editor, IEEE Transactions on Fuzzy Systems (IEEE Computational Intelligence Society).

Editor, Applied Soft Computing (Elsevier).

Associate Editor, International Journal of Fuzzy Systems (Springer).

Dr. Adarsh Anand

Guest Editor, Special Issue, Mathematical techniques applied in engineering and healthcare, Mathematics in Engineering, Science and Aerospace (MESA), Vol 10. (2), 2019.

Editorial Review Board, Amity Journal of Operations Management.

Editorial Board Member, International Journal of Mathematical Engineering and Management Science.

Editorial Board Member, Journal of Graphic Era University.

Dr. Vandana Khaitan

Member of Editorial Review Board, Amity Journal of Operations Management

Research Projects

Professor Pankaj Gupta

Principal Investigator, sanctioned SERB-DST Mathematical Research Impact Centric Support (MATRICS) for the project “Development of Multi-criteria Optimization Models under Uncertainty for Software Component Evaluation and Selection in the Component-Based Software Development”, 2019-2022, Rs. 6.6 Lakh.

Principal Investigator, sanctioned project on “International Asset Allocation” jointly with Prof. Wei-Guo Zhang, South China University of Technology, Guangzhou, China from National Natural Science Foundation of China (No. 71720107002).

Dr. Mukesh Kumar Mehawat, Principal Investigator, sanctioned SERB-DST Mathematical Research Impact Centric Support (MATRICS) for the project “Development of Multi-Criteria Decision Making Approaches for Real-World Decision Situations under Uncertainty”, 2020-2023, Rs. 6.6 Lakh.

Placement Details

Number and percentage of students placed: 70 (70%)

Number of Companies visited for campus recruitment: 32

Number of M.Phil./ Ph.D. Degrees Awarded

Ph.D. : 4

M.Phil. : 2

Faculty Strength

DEPARTMENT OF STATISTICS

Major Activities and Achievements:

The Department of Statistics is involved in carrying out research and teaching in diverse fields of Statistics. It has used the power of Statistics and knowledge of computers to contribute significantly in the area of research. The main thrust of the Department is to conduct basic and applied research and to develop trained manpower in the discipline of Statistics. The Department conducts three degree-oriented programmes, viz. M.A./ M. Sc. Statistics, M. Phil. and Ph.D. with a syllabus that incorporates emerging and core areas in different fields of Statistics. The Department also organizes special invited talks by eminent persons from India and abroad. Distinguished Professors visited the Department to deliver research talks and interact with the faculty and students. The Department has achieved a great success in suitable placement of students in reputed national and international companies/organizations.

Honors/Distinctions:

- Dr. Zuber Akhter received a **certificate of Reviewing** from the Journal entitled "**Statistics in Transition New Series, Warsaw, Poland**".

Publications

1. Akhter Z, Saran J, Verma K, Pushkarna N (2020): Moments of order statistics from Length-biased exponential distribution and associated inference. *Annals of Data Science*, <https://doi.org/10.1007/s40745-020-00245-5>.
2. Akhter Z, Mostafae SMTK, Athar H (2019): On the moments of order statistics from the standard two-sided power distribution. *Journal of Mathematical Modeling*, 7(4), 381-398.
3. Akhter Z, Athar H (2019): Moments of progressive type-II right censored order statistics from generalized exponential distribution. *Applied Mathematics E-Notes*, 19, 718-730.
4. Chaturvedi A, Bapat SR, Joshi N (2019): Sequential minimum risk point estimation of the parameters of an Inverse Gaussian Distribution. *American Journal of Mathematical and Management Sciences*. <https://doi.org/10.1080/01966324.2019.1570883>.
5. Chaturvedi A, Kumari K, Kumar N (2019). Bayesian Estimation Procedures for Generalized Inverted Scale Family of Distributions based on Progressive Censoring. *Far East Journal of Theoretical Statistics*. 56 (2), 93-124.
6. Chaturvedi A, Kumari K, Kumar N (2019). Numerical study of robust Bayesian analysis of a generalized inverted family of distributions based on progressive type II right censoring. *Communications in Statistics-Simulation and Computation*, <https://doi.org/10.1080/03610918.2019.1621340>.
7. Das, R. N., Singh, P., Medda, S.K. (2020). Role of Blood Pressure on Heart Patients. *EC Cardiology*, 7.3, 01-06

8. Deo V, Grover G (2019). A New Approach to Evaluate Quality Adjusted Life Years using Proxy Utility Function-An Application to HIV/AIDS Data. *Journal of Communicable Diseases* (E-ISSN: 2581-351X & P-ISSN: 0019-5138) 51.3, 1-9.
9. Grover G, Das RN, Magan R (2019). On the estimation of QALD (Quality Adjusted Life Days) based on expenditure data for Childbirth and Maternity services in India using utility theory. *Indian Journal of Economics and Development* 7.6.
10. Goel K, Grover G, Sharma A, Bae S. (2019). Multistate Markov model for predicting the natural disease progression of type 2 diabetes based on hemoglobin A1c. *J Nephroarmacol.* 8(1): e04.
11. Grover G, Sabharwal A, Kumar S, Thakur AK. (2019). On the estimation of misclassification probabilities of chronic kidney disease using continuous time hidden Markov models. *J Nephroarmacol.* 8(1): e073.
12. Garg R., Dube M. and Krishna H. (2020). Estimation of parameters and reliability characteristics in Lindley distribution using randomly censored data. *Statistics, Optimization & Information Computing*, 8, pp. 80-97. ISSN: 2310-5070.
13. Kumari T, Pathak A (2019). On the Comparison of Classical and Bayesian Methods of Estimation of Reliability in Multicomponent Stress-Strength Model for a Proportional Hazard Rate Model. *American Journal of Applied Mathematics and Statistics*, 7(4)152-160.
14. Mishra A, Rathour R, Singh R, Kumari T, Thakur IS(2019). Degradation and detoxification of phenanthrene by actinobacterium *Zhihengliuella* sp. ISTPL4. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-019-05478-3>.
15. Pandey R, Kaur C (2019). Modelling Fertility Schedules of India. *Canadian Studies in Population*. 46 (1) pp. 47-60.
16. Pandey R, Kumar J, Kumari N (online 2019). Bayesian Parameter Estimation of Beta Log Weibull Distribution under Type II Progressive Censoring. *Journal of Statistics and Management Systems*. 22. 0972- 0510, e- ISSN: 2169-0014.
17. Pandey R, Srivastava P, Kumari N (2020). On some Inferential Aspects of Length Biased Log Logistic Model. *International Journal of System Assurance Engineering and Management*. <https://doi.org/10.1007/s13198-020-01027-1>.
18. Sabharwal, A., Grover, G., & Kaushik, S. (2019). Testing the difference between bipolar disorder and schizophrenia on the basis of the severity of symptoms with $C(\alpha)$ test. *Journal of Applied Statistics*, 1-10.
19. Sabharwal A, Grover G, Kumar S. (2019). Statistical Significance of Prognostic Factors on The Progression of Chronic Kidney Disease Through Simulation Study. *J Nephroarmacol.* 8(2): e20.
20. Singh, P. and Kumar, A. (2019). Optimal Designs for Beta Regression Model with Random Intercept, *International Journal of Agricultural Statistical Sciences*, 15 (1) 135-141.
21. Singh, P. and Kumar, A. (2019). Optimal Designs for Generalized Pareto Model, *International Journal of Mathematical, Engineering and Management Sciences*, 4 (5) 1264–1276.

22. Thakur, Kumar A, Grover G, Adeleke K (2019). Effect of Prognostic Factors on Survival Time of Patients of Cardiovascular Disease using Quantile Regression. Journal of Communicable Diseases (E-ISSN: 2581-351X & P-ISSN: 0019-5138) 51.3, 15-21.

Workshop Organized

- Workshop on “Data Science and Programming with Python”, organized by Department of Statistics, University of Delhi, Delhi during January 13-15, 2020.
- Invited talk by Dr. Arindam Chatterjee, Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, Delhi, India, on “The Lasso estimator and some of its properties” on October 22, 2019

Other Inter-Institutional Collaboration

09

Students Under Exchange Programme

No

Placement Details (Number and percentage of Students placed)

1. Number and percentage of students’ participants: 68
2. Number and percentage of students placed: 47 and 69.12%
3. Number of Companies visited for campus recruitment: 15

Extension and Outreach Activities

1. Mock Placement for batch 2018-19 (April 30, 2019)
2. Teacher’s Day celebration on Sep 5, 2019
3. Orientation program and Freshers for batch 2019-20 on Sep 27, 2019
4. Group Discussion and CV making Session on Sep, 2019
5. Annual Sports Meet on Nov 09, 2019
6. Clothes Collection Drive Jan 15-27, 2019
7. Swachta Pakwada on Jan 16-31, 2019
8. Celebrating Saraswati Puja Jan 29, 2019
9. Ethnic day celebration on Feb 13, 2019
10. Series of aptitude tests organized for M.A./M.Sc. 1st year students.
11. Presentations by research scholars/teachers under Research Activity Cell.

Number of Ph.D./M. Phil. Awarded:

Ph. D. Awarded: 02 (Mr. Shantanu Vyas, Ms. Rashmi Goel)

M. Phil. Awarded: 07 (Ms. Sayani Dey, Ms. Sanya Aggarwal, Mr. Chatany Swaroop, Mr. Himanshu Shukla, Ms. Yashi Pal, Ms. Richa Jaiswal, Mr. Abhay Kumar)

Number of faculty Permanent/Temporary/Ad-hoc

Permanent : 03

Temporary : 00

Ad-hoc : 04

Other Significant Information:

The Department has its own placement cell called Credence. It has been created in the year 2004. With an objective to provide a platform for the placements of students pursuing M.A./M.Sc. Statistics from University of Delhi. Through the placement cell, students get an opportunity to interact with organizations in corporate world. Every year about 75% of the students get placed through Placement Cell. In the year 2019-20, 47(till date) students got placed through the Placement Cell. The Department has its own website statistics.du.ac.in. The information about the placement cell, faculty, research scholars, other staff of the department, courses run the department, syllabus and other relevant information can be found on the department website.

The Department has two well-equipped fully computerized laboratories with latest computing facilities to the students and researchers.

FACULTY OF MEDICAL SCIENCES

ANATOMY (LHMC)

Major Activities and Achievements

EMBALMING: 574 bodies were embalmed during the period from 1st Jan 2019 till December 2019 for teaching of medical students as well as public service (LHMC being nodal centre for Embalming.)

BODY DONATION ACTIVITIES: are conducted by the department of Anatomy. Body donors are registered and Certificate of Appreciation are issued.

Donor families are felicitated annually by the department for their noble action.

Publications: 8 (NATIONAL & INTERNATIONAL)

- Gupta M, Agarwal S.(2019) Morphometric Study of Foramina Transversaria and the Incidence of Accessory Foramina in Cervical Spine of Indian Population. Original article.JCDR. Vol-13(3): AC07-AC11.
- Kumari S, Tuli A, Agarwal S. (2019) Morphology of Plantaris Longus with Special Reference To Its Clinical Importance. Int J Anat Res .Vol 7(4.2):7101-04. ISSN 2321-4287.
- Saluja S, Agarwal S, Paul S, Raheja S Tuli A, Tigga S (2019)Morphometric Analysis Of The Sacral Hiatus In Indians: Its Clinical Importance. Original article,Int J Anat Res, Vol 7(1.1):6064-70. ISSN 2321-4287

- Jeph RB, Agarwal S , Jeph V, Mehta V. (2019) Effect Of Progesterone on Serum VEGF and Recurrent Abortion in Indian Women. Original article:Indian Journal of Basic and Applied Medical Research; Vol.-8, Issue- 4, P. 183 - 192 183
- Kaur S, Jain ML. (2019) Role of Nuclear Abnormalities as a Biomarker in Early Diagnosis of Cervical Carcinoma. International Journal of Science and Research (IJSR). Volume 8 Issue 4.
- Kaur S, Jain ML. (2019) Nuclear variations in urothelial cells-A diagnostic tool in Early Detection of Cervical Carcinoma.International Journal of Science and Research (IJSR). Volume 8 Issue 12.
- Kumari C, Jain P, Motwani R, Sahni D, Dhingra R, Raza K.(2019) Role of Human Anatomy in Medical Education. North States Journal of Anatomy, 2019, Vol 4 (1).
- Bathla S. (2019) Variant lobar pattern of left lung: A Case Report. Global Journal of Research Analysis;8 (3):1-2.

Journals Published/ Edited

- Dr. Sneh Agarwal: Reviewer for Indian Journal for Surgery, JASI, ACB, JCDR, International Journal of Applied and Basic Medical Research.
- Dr. Anjoo Yadav:Reviewer for Indian Journal of Clinical Anatomy and Physiology, Indian Journal of Anatomy & Surgery of Head, Neck & Brain, Indian Journal of Neurosciences
- Dr. Sheetal Joshi: Faculty reviewer for Snell’s Clinical Anatomy by regions 1/e.

Research Projects

- Thesis titled : ‘Study Of Posterior Cerebral Artery In Human Cadaveric Brain And Its Correlation With MR Angiography’ by candidate Dr.Ekta Sharma. Supervisor Dr. Sneh Agarwal
- Thesis titled ‘Role Of Genetic Abnormalities In Early Detection Of Oral Carcinoma’ by Candidate Dr.Darshita Singh. Supervisor Dr. Sohinder Kaur
- Thesis titled ‘Study Of Morphology And Morphometric Analysis Of Coronary Arteries In Adult Human Cadaveric Hearts’ by Dr Ashok Kumar. Supervisor Dr. Sneh Agarwal
- Protocol submitted for Thesis titled ‘Localization Of Posterior Interosseous Nerve In The Proximal Forearm By Normalised Parameter In Correlation With Surgical Landmarks’ by Dr Meenakshi Motish. Supervisor Dr. Kulwinder Kaur

Conferences organized

S. No.	Name, Venue & Date	Faculty Member	Organiser(s)
1	Foundation course for MBBS admission batch 2019 under the New CBME Curriculum implemented wef 1 Aug 2019. Duration of course: One month (Aug 2019) SJ Auditorium, LHMC	Dr. Sneh Agarwal (Chairperson) Dr. Anjoo Yadav (Co-chairperson) Dr. Anita Tuli Dr. Shashi Raheja Dr. Sohinder Kaur Dr. Kulwinder Kaur	Department of Anatomy, LHMC, New Delhi in collaboration with Physiology, Biochemistry and Community Medicine Departments

		Dr. Sheetal Joshi Dr. Minakshi Malhotra Dr. Prashant Kumar Dr. Pooja Jain Dr. Shilpa Bathla Dr. Ranjeeta Hansdak Dr. Urvashi Singh	
2	Sanjeevni Organ Donation Awareness Mela under Student Leadership Mission under the aegis of NOTTO 9th Feb 19	Dr. Sheetal Joshi (Organising Secretary)	Department of Anatomy, LHMC
3	1st Cadaveric Basic FESS workshop 9th Mar 2019	Dr. Sneha Agarwal Dr. Anjoo Yadav Dr. Shilpa Bathla	Co-organiser Deptt of Otolaryngology
4	Poster competition for undergraduates 16th Apr 2019	Dr. Sneha Agarwal Dr. Pooja Jain Dr. Ranjeeta Hansdak	Department of Anatomy, LHMC
5	Capacity Building Tour for girl students of J&K under 'Sadbhavana' Indian Army's Flagship Mission 20th May 2019	Dr. Sneha Agarwal Dr. Kulwinder Kaur Dr. Minakshi Malhotra Dr. Pooja Jain Dr. Urvashi Singh	Department of Anatomy, LHMC, New Delhi in collaboration with Indian Army
6	Educational & Motivational Tour for girl students of Nubra Valley Ladakh under 'Sadbhavana' Indian Army's Flagship Mission Anatomy lecture theatre, LHMC 29th July 2019	Dr. Anita Tuli Dr. Shashi Raheja Dr. Sohinder Kaur Dr. Kulwinder Kaur Dr. Anjoo Yadav Dr. Minakshi Dr. Prashant Kumar Dr. Pooja Jain Dr. Shilpa Bathla Dr. Ranjeeta Hansdak Dr. Urvashi Singh	Department of Anatomy, LHMC, New Delhi in collaboration with Indian Army
7	Organ & Body Donation Awareness Workshop Training for Volunteers of Dadhichi Deh Dan Samiti, New Delhi 11th Sept 2019	Dr. Sneha Agarwal Dr. Sheetal Joshi Dr. Shashi Raheja Dr. Sohinder Kaur Dr. Kulwinder Kaur Dr. Anjoo Yadav Dr. Minakshi Dr. Prashant Kumar Dr. Pooja Jain Dr. Shilpa Bathla Dr. Ranjeeta Hansdak Dr. Urvashi Singh	Department of Anatomy, LHMC, New Delhi
8	"Health education talk on Environmental Hygiene and Plastic Waste Free Campus" 30th Sept 2019-1st Oct 2019	Dr. Sneha Agarwal Dr. Shilpa Bathla	Department of Anatomy, LHMC
9	National Integration Tour for girl students of	Dr. Sneha Agarwal Dr. Anjoo Yadav	Department of Anatomy, LHMC

	Srinagar (J&K) under 'Sadbhavana' Indian Army's Flagship Mission 27th Dec 2019	Dr. Prashant Kumar Dr. Pooja Jain Dr. Shilpa Bathla	
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SEMINARS/CONFERENCES PRESENTATIONS

INTERNATIONAL

- Dr Sneh Agarwal, Dir.Prof & HOD was invited International Faculty and Expert panelist for Multidisciplinary panel session on “Pelvic Floor and Anorectal Problems Live Multidisciplinary Team” at 31st International Colorectal Disease Symposium held from 25th to 28th February 2020 at David Citadel Hotel, Jerusalem . It was organised by Cleveland Clinic Florida in conjunction with Israel Society of Colon and Rectal Surgeons in Jerusalem, Israel.
- Dr Sneh Agarwal, Dir.Prof & HOD was invited Guest Faculty at First Interim Meeting of International Society Of Colon And Rectal Surgeons and 42 nd Annual Conference of Association Of Colon And Rectal Surgeons Of India (PROCTOLOGY- ACRSICON 2019) held from 31 st Oct.to 3 rd November 2019 at Hotel Grand Hyatt, Kalina,Mumbai. It was organised by Association Of Colon And Rectal Surgeons Of India.

EXTENSION AND OUTREACH ACTIVITIES:

- Conducted a Workshop For Sensitization Of Volunteers From Dadhichi Deh dan Samiti Regarding Organ & Body Donation, at Department of Anatomy,LHMC, New Delhi on 11th Sept. 2019
- Facilitated Educational & Motivational Tour for Girl students of Nubra Valley Ladhak under ‘Sadbhavana’ Indian Army’s Flagship Venue: Anatomy Lecture theatre , LHMC,Date: 29th July 2019
- National Integration Tour for Girl students of Srinagar (J&K) under ‘Sadbhavana’ Indian Army’s Flagship Date: 20th May 2019 & 27th December 2019.
- Sensitization session about organ & body donation for I-year MBBS students (Batch 2019) Venue: Anatomy Lecture theatre
- In collaboration with NOTTO Organ Donation “ Sanjeevani Mela” was organized in Lady Harding Ground on 9th Feb 2019 under SLM, Organ Donation Awareness Forum.

Faculty Strength: 14

Other Significant Information:

EMBALMING: More than 500bodies were embalmed during above period for teaching of medical students as well as public service (LHMC being nodal centre for Embalming)

ANATOMY (MAMC)

Major activities and achievements

The embalming facility at the department is recognised by Govt of NCT of Delhi as official embalming facility. This facility has state of art, body preservation, handling and storage areas with special attention given to seamless transfer of dead bodies for ease of the relatives. The facility also has a viewing room for the relatives to pay their last respect.

Fetal autopsy Unit caters to the autopsies done in the campus hospitals. The department has a fetal repository demonstrating normal and various congenital anomalies.

Department has a modern molecular and cytogenetics laboratory where research projects are under progress.

Honours/Distinctions

1. Dr Surbhi Wadhwa received the Bishan Swaroop Mathur Young Scientist Memorial Award for 2019 at 61st Annual Convocation of MAMC in Feb 2020.
2. Dr Dinesh Kumar was awarded the FAIMER fellowship in 2019.
3. Dr Surbhi Wadhwa was elected Member of National Academy of Medical Sciences at 59th Convocation of NAMSCON at Bhopal

Publications

1. Aashima Dabas, Devender Verma, Dinesh Kumar, Devendra Mishra (2020 March). Undergraduate Medical Students' Experience with Foundation Course at a Public Medical College in India. *Indian Pediatrics*. 57(3):261-263.
2. Garg S, Mishra S, Tiwari S (2020 Mar). Expression of brain derived growth factor in hippocampus of mid gestational human fetuses. *J of Clin Diag Res*. 14(3):1-4.
3. Poonia D, Goswami P, Mishra S (October 2019). Sub-hepatic Caecum with Extra-pelvic Looped Sigmoid Colon: An Embryological and Clinical Perspective case report. *International Journal of Contemporary Medical Research* 6(9):14-16.
4. Yaseen S, Goswami P, Mishra S (August 2019). Topography of the nutrient foramen of human adult fibula and its clinical implications. *International Journal of Scientific Research* 8(7):3-5.
5. Poonia D, Mahajan A, Yaseen S, Mishra (2019 July). Unusual formation of median nerve and occurrence of musculoaponeurotic band in the course of median nerve in arm: a clinicoanatomical study. *IJSR*: 8(7); 10-11.
6. Yaseen S, Wadhwa S, Jeelani K, Mishra S (2019). Abnormal persistence of embryonic blood supply of liver. *Anatomist's Delight, Surgeons Nightmare, Acta Medica*, 62: 72-76.
7. Morphology of suprascapular notch and its clinical significance. Sachin Patil, Sandeep Saluja, Neelam Vasudeva (2019). *International Journal of Anatomy and Research*, Vol 7 (2.1):6420-23.
8. Shilal P, Agarwal S, Tuli A, Kakar (2019). Variation in drainage pattern of middle hepatic and left hepatic vein in the left lobe of liver. *Journal of Clinical and Diagnostic Research*; May15 09AC13-AC17
9. Saluja S, Agarwal S, Paul S, Tuli A, Raheja Tigga SR (2019). Morphometric Analysis of the sacral Hiatus in Indians: Its clinical importance. *int.J Anat.Res.*7(1): 6064-70

10. Kumari S, Tuli A, Agarwal S (2019). Morphology of plantaris longus with special reference to its clinical importance. *Int J Anat Res* 2019 Vol7(4.2);7101-04.
11. Kumari S, Tuli A, Agarwal S (2019). Morphology of plantaris longus with special reference to its clinical importance. *Int J Anat Res*: 7(4.2): 101-04.

Research Projects

1. Expression of Ghrelin in human fetal stomach. Dr. S Mishra, supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".
2. In- silico molecular characterisation of DNAH6 and ATPase6 (mitochondrial DNA) genes in asthenozoospermia patients in northern region of India. Dr Dinesh Kumar, supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".
3. Karyotyping of fetal blood sample of fetuses received for autopsy received in the Department of anatomy. Dr Anita Mahajan, supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".
4. Expression of Aquaporin 1 & 2 in the developing human kidney. Dr Surbhi Wadhwa supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".
5. Stereological quantification of human fetal gastric mucosa. Dr. Babita Pangtey, Dr S Mishra, supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".
6. New cadaveric preservation technique- Modified Thiel Embalming. Dr. Preeti Goswami, Dr. Dinesh Kumar supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".

Seminars Organised

- 1) PG seminars: Organised at regular intervals for postgraduate and journal clubs for senior residents

Conferences Organised

- 2) A workshop on 'Preservation Techniques of Human Body. Chemical and Digital (3 D Printing) Preservation and Museology' was held on 20th-21st December 2019 with Dr. Sabita Mishra, Chairperson and Dr. Dinesh Kumar, Organizing Secretary.

Seminars/ conference presentations (National / International):

Seminars/ Talks

- 1) Dr Sabita Mishra delivered a guest lecture on History of Embalming at CME cum Awareness programme on 'Body & Organ Donation- Live Beyond life on 18th September 2019 at Government Institute of Medical Sciences, Greater Noida, UP.
- 2) Dr Sabita Mishra delivered a guest lecture on History of Embalming at CME cum Awareness programme on 'Body & Organ Donation- Live Beyond life in October 2019 at Hamdard Institute of Medical Sciences and research, New Delhi.
- 3) Dr Dinesh Kumar delivered a guest lecture on 'Body & Organ Donation # More to give': Body donation in COVID Era. Webinar organized by Sharda University, Greater Noida. 13th August 2020
- 4) Dr Surbhi Wadhwa delivered a guest lecture on Surgical Anatomy for vaginal hysterectomy and myomectomy- a perineal perspective for the Society of Vaginal Surgeons of India, Delhi chapter: 3rd

Webinar on Volume Reduction Vaginal Surgery on 23rd August, 2020

Extension and outreach activities:

- Body donation awareness campaign
- Polio prevention program

Faculty Strength

Director Professor: 2

Professor: 3

Associate Professor : 3

Assistant Professor: 1

Consultant : 1

Other Significant Information

1. Dr Sabita Mishra has edited the South Asian edition of Langman's Medical Embryology. (Publisher: Wolters Kluwer, New Delhi; Year: 2019)
2. Dr Sabita Mishra was Co supervisor for thesis for degree of MD Physiology entitled 'Neuroprotective potential of Ellagic acid and Epigallocatechin 3 gallate against 6 hydroxydopamine induced rat model of Parkinson's disease.'
3. Dr Sabita Mishra Reviewed a number of articles for Journal electron microscopy and ultrastructure, Journal of Chemical neuroanatomy, Journal of clinical and Diagnostics Research,
4. Dr Anita Tuli has reviewed articles for the following journals: Journal of clinical anatomy, Brachial plexus, Journal of anatomical society of india, Journal of clinical and diagnostic research, Journal of morphology.
5. Dr Dinesh Kumar reviewed articles for Journal of Surgical and Radiologic Anatomy
6. Dr Anita Mahajan reviewed articles for Journal of PLOS ONE.
7. Dr Sabita Mishra, Dr Dinesh Kumar, Dr Anita Mahajan, Surbhi Wadhwa, Dr Preeti Goswami, Dr Babita Pangtey, Dr Swati Tiwari and Dr Shikha Singh contributed to several chapters in the workshop handbook on Preservation Techniques of Human Body. Chemical and Digital (3 D Printing) Preservation and Museology, 2019.
8. Dr Sabita Mishra is the Academic officer at M.A.M.C. Dr Sabita Mishra is the Convenor at the National Board of Examinations for the subject of Anatomy.
9. Dr Sabita Mishra is the Chairperson of Anatomy and Forensic Sciences Equipment Sectional Committee, MHD 23 under Medical Equipment and Hospital Planning Division Council (MHDC) of Bureau of Indian Standards.
10. Dr Sabita Mishra, Dr Anita Tuli, Dr Dinesh Kumar and Dr Swati Tiwari are members of Anatomy and Forensic Sciences Equipment Sectional Committee, MHD 23 under Medical Equipment and Hospital Planning Division Council (MHDC) of Bureau of Indian Standards.
11. Dr. Dinesh Kr is the Purchase Officer, Member of Sports committee and member of PG committee at

MCI.

12. Dr. Dinesh Kumar is an honorary faculty members in Department of Medical Education MAMC which conducts National Teachers Training Courses and MCI basic workshops for teaching medical faculty from all over India.
13. Dr Anita Mahajan is a Member of PG Protocol Committee and Faculty advisor with Fine arts Committee, PWD committee and Grievance cell.

ANATOMY (UCMS)

Major Activities and Achievements

Dr. Renu Chauhan –

- Joint Editor and Reviewer of the Journal of Anatomical Society of India.
- Member of many Courses committee such as DNB neurosurgery.
- Chaired a session on Brain death and organ donation , organized by GIMS, Greater Noida.
- Received National president’s Appreciation award on World Heart day.
- Chairperson in the National Conference of Society of Clinical Anatomists in Ahmadabad.
- Invited by National Board of Examinations, Dwarka, New Delhi; for validation/moderation of Question Bank.

Dr. Sunita Kalra -

- Invited as Chairperson for a session in ,the National Conference of Anatomical Society of India in, November’2019.
- Reviewer of journal of Anatomical society of India.
- External expert for area advisory Board, Amity University, Uttar Pradesh in June’2019.

Honours/Distinctions

- Dr. Renu Chauhan was awarded “**Bharat Chikitsa Ratan award**” on Doctor’s day in June’19.
- Dr. Renu Chauhan received IMA National president’s Appreciation award on World Heart day.
- Appointed as Delhi University Anatomy Head from 24th Oct’2019.

Publications

- Jha S, Chauhan R . (2019). Osteometry of femur with its clinical implications, JAS, 27(1),5-9.
- Sonu, **Sunita Kalra**. (2019). Rare Variations Of Extensor Tendons In The Dorsum of Hand. International Journal of Anatomical Research . 7(3.2):6865-6867.

Research Projects

- a) Morphometric Analysis Of Anterior Cruciate Ligament - A Cadaveric Study By Dr. Pravallika Galla (2018-2020) Funded By The Institution.
- b) Evaluation Of Important Anatomical Landmarks Ininterior And Exterior Of Cranial Base- A Morphometric Study By Dr Pankaj (2018-2020) Funded By The Institution.
- c) Morphological And Morphometric Analysis Of Coronary Sinus - A Cadaveric Study By Dr Sana(2019-2021) Funded By The Institution.
- d) Variations And Morphometric Analysis Of Right Coronary Artery By DrNamaschivayam(2019-2021) Funded By The Institution.

ANAESTHESIOLOGY (MAMC)

Major Activities and Achievements

Anaesthesia Department has organized MAMC Anaesthesia update: refresher course for exam going postgraduates, 2nd Annual conference of facts or myths in Anaesthesiology, Airway Seed workshop, two Ultrasound workshops, ISA monthly meeting.

Received best monthly meeting of ISA Delhi chapter in April 2019

Dr Chandrima bagged prestigious T N JHA Award at ISA Delhi Annual conference

Dr Amit Kohli was elected as Governing Council member of ISA Delhi chapter in March 2020

Department has established 3 COVID 19 ICUs and 1 emergency OT

SOPS prepared by department for COVID ICU and Emergency OT

Publications

1. Saxena KN , Saha M , Mishra D , Wadhwa B (2019) Combined spinal epidural for Total Knee Replacement in patients with low Ejection Fraction: A Case Series. J Anesthetic Res and Pain Medicine. vol. 4, 1-5. doi.org/10.28967/jarpm. 2019.01.19001
2. Saxena KN, Wadhwa B, Mishra D. Anesthetic management of cesarean section in parturients with severe mitral stenosis: A case series. J Obstet Anaesth Crit Care 2019;9:46-9.
3. Gupta B, Wadhwa B, Gaba P, Saxena KN. Anaesthetic management of a patient with difficult airway for T-tube insertion. Airway 2019;2:103-5.
4. Saxena KN, Kaul A, Shakir M. Anesthetic management of an obstetric patient with idiopathic transverse myelitis: A unique approach! J Obstet Anaesth Crit Care 2019;9:99-101.
5. Kerai S, Saxena KN, Wadhwa B. Preoperative pregnancy testing in surgical patients: How useful is policy of routine testing. Indian J Anaesth 2019;63:786-90.
6. Mishra D, Saxena K, Wadhwa B (2019). Ratio of Patient's Height to Thyromental Distance: Predictor of Difficult Laryngoscopy in Paediatric Patients. Int J Case Rep Clin Image 1(4): 118
7. Sapra SS, Saxena KN, Taneja B, Bansal S, Sarin YK. Comparative evaluation of combined ilioinguinal iliohypogastric block versus caudal block using ropivacaine and clonidine for paediatric postoperative analgesia following inguinal hernia repair. Northern Journal of ISA. 2018;3: 9-14.(Published in 2019)

8. Naeem MS, Saxena KN, Taneja B. An evaluation of retrograde light-guided laryngoscopic intubation and its comparison with conventional direct laryngoscopic intubation. *Northern Journal of ISA*. 2018;3: 15-20.(Published in 2019)
9. Saxena KN, Mahajan A. Anaesthetic management of a parturient with clinoid meningioma for caesarean section. *Northern Journal of ISA*. 2018;3: 25-27. .(Published in 2019)
10. Bedi J, Shifaat F, Saxena KN A Comparative Evaluation of Intra-Articular Bupivacaine v/s Intra-articular Bupivacaine and Diclofenac on Post-Operative Pain and Recovery Following Arthroscopic Knee Surgery .*Sch J App Med Sci*, Nov., 2019; 7(11): 3568-3574
11. Gahlot D, Saxena KN, Wadhwa B. Cesarean section in a parturient with giant lung cyst. *J Obstet Anaesth Crit Care* 2020;10:51-3.
12. Kirti N Saxena. *Journal Scan 1*. In *Year Book of Anesthesiology-9(2019)* ,Published by Jaypee Brothers
13. Munisha Agarwal. Book Review- *Clinical Pediatric Anesthesia: A Case Based Handbook*, Williams ES, Olutoye OA. Published in *Anesthesia & Analgesia* July 2019. Volume 129, Number 1.
14. Anju Bhalotra. Contributed a chapter on “Gas Embolism - An Update” in year book of *Anesthesiology -9* edited by Dr Raminder Sehgal and Dr Anjan Trikha published by Jaypee Brothers in year 2019.
15. Bhalotra AR. Are we misusing the ILMA tube? A cause of concern? *Indian J Anaesth* 2019;63:76-7.
16. Manohar M, Bhalotra AR. Voice change after spinal anaesthesia. *Indian J Anaesth* 2019;63:593-4.
17. Bhalotra AR. Cervical instability in patients with Trisomy 21: the gamble continues. *Paediatric Anaesthesia*. 2019; 29 (6) : 660-60
18. Bhalotra AR, Balyan R, Manchanda G, Singh S. Opioid-free anaesthesia in children with severe mandibular hypoplasia and TMJ ankylosis with sleep apnoea for mandibular distraction osteogenesis. *Indian J Anaesth* 2019;63:412-4.
19. Gupta B, Bhalotra A. To assess and compare dexamethasone, lignocaine, and tramadol in reduction of propofol-induced vascular pain. *Indian Anaesth Forum* 2019; 20:26-31
20. Bhalotra AR. The dilemma of mitochondrial diseases – easy to manage but difficult to diagnose? *Pediatr Invest* 2019 Jun; 3(2): 131-132
21. Sharma S, Bhalotra AR, Awal S. Changes in Lung Function Parameters after Total Intravenous Anaesthesia and Balanced Anaesthesia with Desflurane: A Prospective Randomised Study. *Turk J Anaesthesiol Reanim* 2020; 48(1): 17-23.
22. Chugh V, Bhalotra A. Double Nebulisation for Airway Anaesthesia. *Turk J Anaesthesiol Reanim* 2020; 48(1): 82-3.
23. Bhalotra A, Saran A, Sood R. Use of an Airway Exchange Catheter for Removal of an I-Gel Airway. *Turk J Anaesthesiol Reanim* 2020; 48(4): 342-3.
24. Dhiman S, Bhalotra A R, Kumari R, Sharma K R, Verma U C. Magnesium sulfate and fentanyl for facilitating awake fiberoptic nasotracheal intubation: A randomized study. *Ann Anesth Crit Care*. Online ahead of Print; 4(1): e90482. doi: 10.5812/aacc.90482.

25. Gupta D, Bhalotra AR, Singh R. Audit on Practices of Stress Ulcer Prophylaxis in Intensive Care Unit Patients. March 2020. *Indian Journal of Critical Care Medicine* 2020; 24(3):160-167. DOI: 10.5005/jp-journals-10071-23368
26. Bhalotra AR. Awake supraglottic airway guided flexible bronchoscopic intubation. *Korean J Anesthesiol* 2020;73(2):173-174 <https://doi.org/10.4097/kja.20013>
27. Ruchi Kumari R, Bhalotra AR, Dhiman S. Effects of perioperative infusion of lidocaine versus dexmedetomidine on postoperative pain and recovery in patients undergoing laparoscopic cholecystectomy: A randomized trial. *International Journal of Medical Anesthesiology* 2020; 3(2): 70-75
28. Choudhary Nitin, Singh Rahil, Bhalotra Anju R, Magoon Rohan. Effect of intraoperative intravenous lignocaine infusion on the haemodynamic stability and postoperative recovery following intracranial aneurysm surgery: A case series. *Brief Communication. IJA* 2020; 64 (15): 205-8
29. Kumar R, Kumar S, Misra A, Kumar NG, Gupta A, Kumar P, et al. A new approach to airway assessment—“Line of Sight” and more. Recommendations of the Task Force of Airway Management Foundation (AMF). *J Anaesthesiol Clin Pharmacol* 0;0:0. (Ahead of Print)
30. Rakesh Kumar Sunil Kumar, Neera Kumar, P.S. Bhandari. Airway Management Of Post-Burn Neck Contracture: Preshaped Supraglottic Airways Should Be The New ‘Gold Standard’. *Trends in Anaesthesia and Critical Care* 2020; 30:e156
31. Mohammed Jaffer Sherif, Rakesh Kumar, Munisha Agarwal, Lalit Gupta, Neera Gupta Kumar. Ambu AuraGain and i-gel as Barriers to Dye Placed in the Oropharynx – A Preliminary Study. *Trends in Anaesthesia and Critical Care* 2020; 30:e17
32. Riniki Sarma, Rakesh Kumar, Munisha Agarwal, Neera Gupta Kumar, Sunil Kumar. Evaluation of Intubating Laryngeal Mask Airway, i-gel and Ambu AuraGain for Blind Tracheal Intubation. *Trends in Anaesthesia and Critical Care* 2020; 30:e24
33. Kumar Rakesh. Acquiring Skills of Airway Management: The Grandpa-granddaughter Model (Editorial). *J Anaesth Clin Pharmacol* 2019; 35(3): 287-8.
34. Deepak GP, Sarma Riniki, Kumar Rakesh, Kumar Sunil. Foley Catheter-based Inexpensive, indigenous airway device. *J Anaesth Clin Pharmacol* 2019; 35(3): 407-8.
35. Kumar Rakesh, Gupta Anju, Kumar Sunil, Kumar Divya. Iatrogenic Cause of Postextubation Total Airway Obstruction Caught on Camera: A Case Report. *J Anaesth Clin Pharmacol* 2019; 35(3): 409-10.
36. Kohli M, Wadhawan S, Bhadoria P, Ratan SK. Comparative evaluation of I-gel vs. endotracheal intubation for adequacy of ventilation in pediatric patients undergoing laparoscopic surgeries. *J Anaesthesiol Clin Pharmacol* 2019 ;35:30-5.
37. Farah Husain, Sonia Wadhawan, Sudhindra Dharmavaram, Poonam Bhadoria, Asmita M Rathore. Comparative evaluation of two doses of pregabalin as oral premedication for laparoscopic sterilization with respect to analgesic efficacy and time to discharge. *Indian Journal of Clinical Anaesthesia*, July-Sept, 2019;6(3):468-472
38. Choudhary N, Kumar A, Kohli A, Wadhawan S, Bhadoria P. I-Gel as an intubation conduit: Comparison of three different types of endotracheal tubes. *Indian J Anaesth* 2019;63:218-24

39. Choudhary N, Kumar A, Kohli A, Wadhawan S, Siddiqui TH, Bhadoria P, Kamat H. Single-point versus double-point injection technique of ultrasound-guided supraclavicular block: A randomized controlled study. *J Anaesthesiol Clin Pharmacol* 2019;35:373-8
40. Choudhary N, Wadhawan S, Singh R, Bhadoria P. Anaesthetic management of a child with Farber's lipogranulomatosis posted for exploratory laparotomy. *Indian J Anaesth* 2019;63:953-5
41. Faulty nitrous oxide-oxygen interlock or hypoxic device leading to higher concentration of oxygen delivery. Bhavna Gupta, Kapil Chaudhary, Gunjan Manchanda, Jaspal Singh Dali, Mona Arya. *MAMC J Med Sci* 2019;5:93-5.
42. Kumar Abhijit, Kohli Amit. Challenges in airway management of trauma patients: An update. *Indian J Clin Anaesth* 2020;7(1):39-45.
43. Jain G, Sharma A, Gupta L. A Novel Technique to Prevent Head and Neck Injuries during Prone Positioning. *Madridge J Case Rep Stud.* 2020; 4(1): 174-175. Doi: 10.18689/mjcrs-1000145
44. Sharma A, Gupta L, Gupta B. Airway management in prone position following penetrating iron rod injury in back: An anaesthetic challenge. *Indian J Anaesth* 2019;63:1039-40. DOI:10.4103/ija.IJA_503_19
45. Ashwani Sharma, Lalit Gupta. Clonidine a Wonder Drug. *Indian J Anesth Analg.* 2019;6 (6 Part - I):2057-2062.
46. Gupta B, Kerai S, Kakkar K, Gupta L. Role of High-flow Nasal Oxygen Therapy in Cases with Pulmonary Hypertension in an Intensive Care Unit Setting. *Indian J Crit Care Med.* 2019;23(10):458–461. DOI:10.5005/jp-journals-10071-23264.
47. Lalit Gupta. “Laparoscopic Cholecystectomy Pain: Out of Sight but Kept in Mind”. *ECAnaesthesia ECO.01* (2019): 03-04.
48. Gupta L & Gupta B. (2019) Peribulbar Block and Brainstem Anesthesia: An Unexpected Complication. *Int J Anaesth Res*, 2(3): 84-85.
49. Sharma A, Gupta L. Primary pipeline check in preanesthetic machine checkout: A prerequisite or savior. *Med J DY Patil Vidyapeeth* 2019;12:476-8.
50. Kumar NG, Gupta L, Sharma A. Spinal myoclonus following combined spinal and epidural anesthesia: An unusual complication. *Indian J Clin Anaesth* 2019;6(3):476-7. DOI:10.18231/j.ijca.2019.092
51. Gupta B, Kerai S, Gupta A, Gupta L. A survey of practice among doctors in India belonging to different specialities towards peripheral tracheal intubation calls. *Indian J Clin Anaesth* 2019;6 (3):337-42. DOI:10.18231/j.ijca.2019.065
52. Gupta B, Gupta A, Gupta L. Stress or metabolic response to surgery and anesthesia. *Indian J Clin Anaesth* 2019;6 (2):165-71. DOI: 10.18231/j.ijca.2019.031
53. Dwivedi G, Rathore A, Gupta L. A Retrospective Study of Complications of Peripherally Inserted Central Venous Catheters in Oncology Patients. *Int J Sci Stud* 2019;7(1):135-141
54. Gupta L, Gupta B. Postpartum Seizure Due to Neurocysticercosis: A Case of Diagnostic Dilemma. *MAMC J Med Sci* 2019;5:33-5. DOI: 10.4103/mamejms.mamejms_11_19

55. Lalit Gupta & Bhavna Gupta. Introducing "Synopsis of Anesthesia": Book Review, Editorial. *Indian J Anesth Analg*.2019; 6 (1(Part-1)) : 8
56. Gupta L, Gupta B, Kakkar K, Manohar M. Look-Alike Drugs-‘A Wonder or a Blunder’? *Ann Anesth Crit Care*. 2018 October, 3(2):e79850. DOI: 10.5812/aacc.79850 (Published online 2019 April 10).
57. Dwivedi G, Ansari FA, Gupta L. A Retrospective Comparison of Mortality in Hematological versus Non Hematological Malignancies in Cancer Intensive Care Unit. *Int J Sci Stud* 2019;6(12):102-105.
58. Gupta L, Manohar M. Anesthetic considerations in bilateral congenital anophthalmia: A rare clinical entity. *Anesthesiol Open J*. 2019; 3(2): 27-29. DOI: 10.17140/AOJ-3-122
59. Pangasa N, Dali JS, Sharma KR, Arya M, Pachisia AV. Comparative evaluation of Truview evo2 and Macintosh laryngoscope for ease of orotracheal intubation in children–A prospective randomized controlled trial. *Journal of anaesthesiology, clinical pharmacology*. 2019 Jan;35(1):25.
60. Pachisia AV, Sharma KR, Dali JS, Arya M, Pangasa N, Kumar R. Comparative evaluation of laryngeal view and intubating conditions in two laryngoscopy positions-attained by conventional 7 cm head raise and that attained by horizontal alignment of external auditory meatus-sternal notch line–using an inflatable pillow-A prospective randomised cross-over trial. *Journal of anaesthesiology, clinical pharmacology*. 2019 Jul;35(3):312.

ANAESTHESIOLOGY (LHMC)

Department of Anesthesia and Critical care Lady Hardinge Medical College provides Anesthesia services to both elective and emergency procedures to all surgical specialties such as Gynecology and Obstetrics, General and minimalistic surgery, Pediatric surgery, Orthopedics, Eye ENT, Dental and Faciomaxillary surgery and also to procedures done in peripheral locations such as Electro-convulsive therapy, radiological procedures, Family Planning etc to both adults and pediatric patients. The department manages critically ill patients in a tertiary care ICU including COVID patients and also provides pain and palliative care services. Besides undergraduate and post graduate training the faculty and resident doctors also train the technical staff under the Prehospital Trauma technician course funded by the Ministry of Health and family Welfare. Workshops and academic events such as Basic and advanced Life support, Acupuncture, PG education updates, Fundamental Critical Care Support course and CMEs on relevant topics are part of the calendar every year. Participation in various social activities such as Swachh Bharat Abhiyaan and cultural events like Splash and Anesthesia Meets hosted by the institute contribute to all round personality development for the staff.

Publications

1. Ahuja Prateek, Singh Ranju, Jain Aruna. Effect of intrathecal catheterisation on incidence of post-dural puncture headache after accidental dural puncture in non-obstetric patients. *J Anaesthesiol Clin Pharmacol* 2019; 35: 49-52.
2. Goyal Nitin, Singh Shalendra, H M Prashantha Kumar, Jain Aruna, Singh Ranju. Comparison of Intrathecal Levobupivacaine with Fentanyl and Bupivacaine with Fentanyl in Cesarean Section. *Global Journal for Research Analysis* 2019; 8(4): 68-70.
3. Kumar N. Analgesia in Major Abdominal Surgery. Krige A and Scott MJP, Editors. Cham, Switzerland: Springer, 2018, Book Review. *Anesth Analg*. 2019; 129: e168.

4. Kumar N, Gupta N, Kohli P, Jain A. Using a feeding tube to intubate and ventilate a 650 gram preterm neonate. *Pediatr Anesth.* 2019; 29: 661-2.
5. Kumar N*, Singla S, Jain A. Anaesthetic Management of an Emergency EXIT Procedure: A Case Report and Review of Literature. *Acta Anaesth Belg.* 2019; 70:141-144.
6. Kumar N, Sardana R, Jain A. Inguinal canal block for laparoscopic inguinal hernia repair. A case series. *Journal of Medical College.* 2019; 9:55-7.
7. Kundal R, Dogra N, Kundal VK. Anesthetic consideration in gastroschisis repair at a tertiary care hospital. *Srilankan Journal of Anesthesia .* 2019; 27(2):115-119
8. Saxena Sonal, Priyadarshi M, Saxena Arpita, Singh Ranju. Antimicrobial consumption and bacterial resistance pattern in patients admitted in ICU at a tertiary care center. *J infection public Health* 2019; 12: 695–699.
9. Singh Ranju. Advanced Life Support: ECMO & Beyond. *AOGD Bulletin* 2019; 18 (11): 11-15

Organizing Training Course/ Conferences/ Symposia/ Seminars/ Workshops/ CMEs

S.No.	Faculty member	Organiser (s)	Name, Venue, Date
1.	Dr. Pramod Kohli Dr. Nitin Hayaran	Department of Anaesthesia	Acupuncture Course, 16 th – 30 th July 2019 at LHMC
2.	Dr. Radhika Aggarwala Dr. Maitree Dr. Ranju Dr. Nishant Dr. Anshu Gupta Dr. Garima Agrawal	Department of Anaesthesia	BLS training programme every Saturday
3.	Dr. Ajai Kumar Dr. Maitree Pandey Dr. Nishant Dr. Anil	Department of Anaesthesia	Prehospital Trauma Technician Course
4.	Dr Maitree Dr Ranju Dr Anshu Gupta (Professor) Dr Anshu Gupta (Assoc Prof)	Department of Anaesthesia	ACLS course
5.	Dr Maitree Pandey Dr Anshu Gupta (Professor) Dr Garima Agrawal Dr Preeti	Department of Anaesthesia	Fundamental Critical Course Support Course 21 st – 22 nd December,2019

Faculty Strength : Director Professor: 9

Professor : 2

Associate Professor : 5

Assistant Professor: 2

Placement Details

All our post graduate students (10 in number) who appeared for MD anesthesia examination in the year 2019 are employed as Senior Residents in various hospitals of their preference across the country.

ANAESTHESIOLOGY (GIPMER)

Department of Anaesthesiology and Intensive Care, GIPMER

Permanent Faculty members: Dr. Vishnu Datt (Head); Dr. Deepak K Tempe; Dr. Rajeev Uppal; Dr. Akhilesh S Tomar; Dr. Pragati Ganjoo; Dr. Monica S Tandon; Dr. Sanjula Virmani; Dr. Anirban Hom Choudhary; Dr. Som Chandra; Dr. Kiran Lata Kiro; Dr. Priyanka Khurana; Dr. Rachna Wadhwa; Dr. Ankit Sharma.

Major Activities and Achievements

- Started a new academic course of Diplomate of National Board (DNB) Neuroanaesthesiology and Critical Care, affiliated to The National Board of Examinations (NBE) from July 2019 session, two candidates; Program Coordinator: Dr. Pragati Ganjoo.
- Continued academic course of DM Cardiac Anaesthesiology, affiliated to Delhi University, one candidate. Program Coordinator: Dr. Vishnu Datt.
- Dr. DK Tempe retired from Government Service as Professor of Excellence, Department of Anaesthesiology and Intensive Care, GIPMER, in January 2020.

Honours/ Distinctions

- Dr. D K Tempe: Chancellor of Indian College of Cardiac Anaesthesia.
- Dr. V Datt: FIACTA teacher accreditation for Cardio-thoracic Anaesthesia.
- Dr. P Ganjoo: Head of Education Committee of Indian Society of Neuroanaesthesiology and Critical Care (ISNACC); Awarded 'Certificate of Recognition' by the Editorial Board of Journal of Neuroanaesthesiology and Critical Care (JNACC) for contribution as Section Editor (original articles) for the year 2019.
- Dr. S Virmani: FIACTA teacher accreditation for Cardio-thoracic anaesthesia.
- Dr. AH Choudhuri: Received Presidential Citation for outstanding contribution to Critical care medicine from Indian Society of Critical Care Medicine (ISCCM) in 2020; Elected as National executive member of ISCCM for 2020-22.

Publications

- Tempe DK. (2019) The complexity of pulmonary hypertension and its prognostic importance in patients with valvular heart disease. J Cardiothorac Vasc Anesth, 33(3), 683-685.
- Tempe DK. (2019). A quick and simple method to assess reliably the left ventricular function with TEE: is MAPSE the answer? J Cardiothorac Vasc Anesth, 33(5), 1340-1342.
- Tempe DK, Dhir A. (2019) Ethnicity and health care. Cardiothorac Vasc Anesth, 33(2), 394-395.
- Sharma V, Tempe DK. (2019) The effect of inhaled milrinone versus inhaled levosimendan in pulmonary hypertension patients undergoing mitral valve surgery. J Cardiothorac Vasc Anesth, 33(11), 3221.
- Tempe DK, Sharma A. (2019). Insights into anesthetic challenges of whole lung lavage. J Cardiothorac Vasc Anesth, 33(9), 2462-2464.

- Tempe DK, Sawhney C. (2020) Opioid-free anesthesia for thoracic surgery: a step forward. *J Cardiothorac Vasc Anesth*, 34(11), 3041-3043.
- Tempe DK. (2020) Cardiac anesthesiologist in the follow-up care of patients with congenital heart disease? *J Cardiothorac Vasc Anesth*, 34(8), 2009-2011.
- Tempe DK, Neema PK. (2020) The challenges of implementing the clinical data standards. *J Cardiothorac Vasc Anesth*, 34(11), 2881-2883.
- Tempe DK, Hasija S. (2020) Con: Does preoperative discontinuation of angiotensin-Converting Enzyme Inhibitors/ Angiotensin II Receptor Blockers reduce postoperative acute kidney injury? *J Cardiothorac Vasc Anesth*, 34(10), 2836-2838.
- Datt V, Khurana P, S. Aggarwal S, Mishra S, Sujith CN, Virmani S. (2019) Perioperative management of a patient with double orifice mitral valve with supramitral ring with subaortic membrane with ventricular septal defect and severe pulmonary hypertension: Report of a rare case. *Annals of cardiac Anesthesia*, 22(2), 215-20.
- Malik I, Ganjoo P. (2019) Perioperative significance and management of electrocardiographic abnormalities in patients undergoing cerebral aneurysm surgeries. *Neurol India*, 67, 427-32.
- Tejus M, Singh D, Jagetia A, Singh H, Tandon MS, Chawla R, Ganjoo P. (2019) Endovascular nuances in the management of multiple intracranial aneurysms. *Neurol India*, 67, 1062-65.
- Kumar P, Bodeliwala S, Aher R, Jagetia A, Srivastava AK, Singh D, Ganjoo P. (2020) Evaluation of ischemia following clipping of anterior circulation aneurysms with respect to temporary clipping using diffusion-weighted magnetic resonance imaging: a prospective study. *Indian J Neurosurg* 2020. DOI 10.1055/s-0039-3402625.
- Tandon MS, Doley K, Singh D. (2019) Supratentorial tumors. *Essentials of Geriatric Neuroanaesthesia*. Taylor and Francis, CRC Press.
- Tandon MS, Sharma MU. (2019) Cerebral hyperperfusion syndrome. *Essentials of Neurointensive care*, Oxford University Press.
- Tandon MS, Goswami A. (2019) Pregnancy and neuroanesthesia. *Textbook of Neuroanesthesia and Neurocritical Care*. Springer Inc.
- Virmani S, Datt V, Tempe DK, Minhas HS, Meher R, Goswami AD, Sharma S, Malik I. (2020) Spontaneous bag mask ventilation for establishing cardiopulmonary bypass via mid-sternotomy in patients with severe tracheal stenosis: A series of three patients. *Ann Card Anaesth*, 23(2), 241-245.
- Wadhwa R, Sawhney C, Tempe DK. (2020) Gender Bias: An Indian Perspective. *J Cardiothorac Vasc Anesth*, S1053-0770, (20), 30506-1.
- Choudhuri AH, Sharma A, Uppal R (2020) Effects of delayed initiation of End-of-Life (EOL) care in terminally ill intensive care unit (ICU) patients. *Indian J Crit Care Med*, 24(6), 404–8.
- Choudhuri AH, Duggal S, Biswas PS, Uppal R. (2020) A comparison of APACHE II (Acute Physiology and Chronic health evaluation) score and serum procalcitonin (PCT) change for predicting mortality in acute pancreatitis. *Indian J Crit Care Med*, 24, 190-94.
- Choudhuri AH, Ahuja B, Biswas PS, Uppal R. (2019) Epidemiology of multidrug resistant infections after Inter-ICU transfer in India. *Indian J Crit Care Med*, 23, 1-6.
- Choudhuri AH. (2019) Research methodology in critical care. *Comprehensive Course in Critical Care (4C)*. Delhi Jaypee Publications.
- Choudhuri AH. (2019) Role of Vitamin C in septic shock. *ISCCM Update*. Delhi Jaypee Publications.

- Choudhuri AH. (2019) Gastrointestinal emergencies. Text Book of Critical Care Medicine. Delhi Jaypee Publications.
- Choudhuri AH (2019) Fever in ICU. Textbook of Critical Care Medicine. Delhi Jaypee Publications.
- Choudhuri AH. (2019) Perioperative fluid management. Textbook of Fluid Management in Critical Care. Springer publications.

Number of teachers serving as editors/members of editorial board

- Dr. D K Tempe: Member, Associate Editorial Board, British Journal of Anaesthesia, 2012-2019; Member Editorial Board, Seminars in Cardiothoracic and Vascular Anesthesia;
- Member Editorial Board, Current Anesthesiology Reports, published by Springer; Section Editor, Indian Journal of Cardiovascular Thoracic Surgery; Editorial Board Member, Journal of Cardiothoracic and Vascular Anesthesia; Editorial Board Member, Annals of Cardiac Anaesthesia.
- Dr. V Datt: Editorial Board of the Annals of Cardiac Anesthesia.
- Dr. P Ganjoo: Section Editor (original articles), Journal of Neuroanaesthesiology and Critical Care (JNACC).
- Dr. MS Tandon: Section Editor (Review articles), Journal of Neuroanesthesiology and Critical Care.
- Dr. S Virmani: Editorial Board of the Annals of Cardiac Anesthesia.
- Dr. R Wadhwa: Associate Editor, Indian Journal of Clinical Anaesthesia.

Other Inter-Institutional Collaboration: Dr. P Ganjoo, Dr. MS Tandon. Members of Doctoral Committee for PhD thesis in Neuroanesthesiology, AIIMS Delhi, Candidate: Dr Indu Kapoor. Title: OPIoid sparing Anesthesia Technique for supratentorial craniotomy in geriatric patients [OPIATE]: a randomized open labelled study.

Students under Exchange Programs (inbound): Training and Teaching in Neuroanaesthesia and Cardiac Anaesthesia of around 20-25 students from 4-5 Medical Institutions of Delhi (on rotational posting of 15-30 days duration per student from each Institute).

Faculty Strength: 12 Permanent Faculty and 3 Contractual Faculty.

ANAESTHESIOLOGY (UCMS)

Awards

NAME	AWARD	DATE RECEIVED
Dr. Saxena AK	2020 World Congress on Pain Award Winner – IASP (International Association for Study of Pain) Award for “Excellence in Pain Research & Management in Developing Countries”.	Jan 2020

Conferences Attended

NAME	NAME OF THE CONFERENCE/CME AND PLACE	DATES
Dr. Chaudhary S	Chaired sessions as faculty at ISACON Delhi, 58th Annual conference of Indian Society of Anaesthesiologists Delhi Chapter.	13-14 Apr 2019
	Speaker for pro - con session on "Workstation in modern anaesthesia practice" and judge for paper presentation at Annual Conference of Research Society of Anaesthesiology and Clinical Pharmacology (RSACPCON) 2019 held at PGIMS Rohtak.	26-28 Apr 2019
	Faculty for case discussion on "Mitral stenosis in pregnancy" at MAMC - Anaesthesia Update.	28 Aug-1 Sep 2019
	Faculty for preconference workshop (ICACON2019) on Airway management at MAMC & LNH.	5 Sep 2019
	Faculty at ICACON 2019 - 11th National and 1st International Conference of Indian College of Anaesthesia (ICA) held at Le Meridien, Delhi.	6-8 Sep 2019
	Faculty and chairperson at International CME and workshop on the occasion of World Anaesthesia Day for "Ultrasound guided nerve blocks in children" held at Super Speciality Paediatric Hospital and Post graduate Teaching Institute (SSPH&PGTI) NOIDA.	16 Oct 2019
	Faculty speaker for pro-con session on "TEG is best before CNB in thromocytopenic parturient" and chairperson at 67th Annual National Conference of ISA held at Bengaluru.	26-29 Nov 2019
	Speaker and judge at MAMC, Facts and Myths in Anaesthesiology - Extremes of age", - i) Delivered a talk on 'Post Operative Cognitive Dysfunction in geriatrics. How much anaesthesia contributes to it? ii) Judged a poster session at the same conference.	14-15 Dec 2019
	Organising faculty and speaker for PG Anaesthesia Refresher Course held at UCMS & GTBH.	21-25 Dec 2019
Dr. Chilkoti GT	Lecture on topic "Perioperative concerns in hypothyroidism" in PG Anaesthesia Refresher Course at UCMS & GTBH.	21-25 Dec 2019
	Lecture on topic "Status of Problem-based learning in anaesthesia teaching" in Annual Conference of ISA, Delhi Chapter.	13-14 Apr 2019
	Lecture on "Anaesthetic concerns for thyroid surgery" at Annual Conference of ISA Uttarakand Chapter.	15 Oct 2019
Dr. Kapoor R	Workshop on Research Methodology held at AIIMS, Delhi.	5 Sep 2019
	International Conference of Indian College of Anaesthesiology (ICACON 2019) in Delhi.	6-8 Sep 2019
	Chaired session in PG Anaesthesia Refresher Course held at UCMS & GTBH.	21-25 Dec 2019
Dr. Mohta M	Guest lecture on "Latest Guidelines in Obstetric Anaesthesia" at Rohilkhand Medical College & Hospital, Bareilly.	3 Apr 2019

	Delivered invited lecture on “Recent advances in management of spinal hypotension” during 58 th Annual Conference of Indian Society of Anaesthesiologists, Delhi Chapter.	13–14 Apr 2019
	Faculty for the “2 nd MAMC Anaesthesia Update 2019” held at MAMC, New Delhi. Conducted a case discussion on “Kyphoscoliosis”.	28 Aug-1 Sep 2019
	Faculty, AIIMS Anaesthesiology Post Graduate Assembly 2019 organised by AIIMS, Delhi. Delivered a lecture on “Preeclampsia and Eclampsia”.	29 to 3 Oct 2019
	Invited lecture on “Monitoring the elderly during MAC: How much is too much” during “Facts or Myths in Anaesthesiology - Theme: extremes of age” organized by MAMC, New Delhi	14-15 Dec 2019
	Delivered a lecture on “Principles of Obstetric Anaesthesia” at PG Assembly, organized by University College of Medical Sciences, Delhi	21–25 Dec 2019
	Faculty (Judge for poster presentation) at 12 th Annual National Conference of Indian Association of Pediatric Anesthesiologists, organized by Banaras Hindu University, Varanasi.	7-9 Feb 2020
	Hands-on Training Programme on “Good Clinical Practice” at Clinical Development Services Agency, Faridabad, organized by CDSA and BCIL for National Biopharma Mission, Department of Biotechnology, Government of India.	28-29 Jan 2020
Dr. Salhotra R	Faculty in 67 th Annual National Conference of Indian Society of Anaesthesiologists held at Bengaluru.	25-29 Nov 2019
	Faculty for workshop on Front of neck access during the proceedings of AIRWAY 2020, the Airway Congress of AMF, Aerocity, New Delhi.	22-23 Feb 2019
	Participated as instructor in the various BLS course for doctors and nurses organized by GTB Hospital bimonthly.	
Dr. Saxena AK	As faculty for “Presidential Oration” at ISA North Zone Conference, held at Amritsar on 21 st -23 rd February 2020.	21-23 Feb 2020
	As faculty for “Guest Lecture on Role of Botulinum-A Toxin in Management of Myofacial Pain Syndrome” at Annual Conference of IASP, held at Ahmedabad.	14-16 Feb 2020
	As faculty for 3 Guest Lectures & Chairing of Session during “PG Aneasthesia Refresher Course” held at UCMS.	21-25 Dec 2019
	Dr Ashok Kumar Saxena delivered “Dr. A. Bhattacharya Oration on Excellence in Pain Research and Pain Management” on 7 th December, 2019 during India Pain Update held at Le Meridien Hotel, New Delhi, India.	7– 8 Dec 2019
	As faculty for a Guest Lecture on “Persistent Pain in Cancer Survivors” during ISACON –East Zone Conference held at Bhubaneswar.	18-20 Oct 2019
	As a faculty for a guest lecture during international Pain Conference, held at Chandigarh.	9-11 Oct 2019

	As faculty and Chairperson at International CME and Workshop on the occasion of World Anaesthesia Day for “USG - Guided Nerve Blocks in Children” held at Super Speciality Hospital and Post Graduate Teaching Institute (SSPH & PGTI) Noida.	16 Oct 2019
	As faculty at ICACON 2019 - 11 TH NATIONAL and 1 ST International Conference of Indian College of Anesthesiologist (ICA) held at Le Meridian, Delhi.	6-8 Sep 2019
	As faculty for “Case Discussion” for Post graduates at MAMC Anaesthesia Updates on 1 st September 2019.	1 Sep 2019
	Dr Ashok Kumar Saxena delivered “Past President Oration” on 13 th . April.2019 during the annual conference of ISA Delhi Chapter, New Delhi.	12-14 Apr 2019
Dr. Tyagi A	Patient with coronary stent for non-cardiac surgery. In: Anaesthesia PG refresher course; UCMS; Delhi (Case Discussion)	21–25 Dec 2019
	Critical Care in Pregnancy. In: FCCS (Fundamental Critical Care Support) Course; Lady Hardinge Medical College and associated hospitals, Delhi (Lecture)	21-22 Dec 2019
	Judge for oral paper presentation. In: National Conference of Indian Society of Anaesthesiologists; Bengaluru; India	26-29 Nov 2019
	Cleft lip and palate. In: AIIMS Anaesthesiology PG Assembly; AIIMS; Delhi (Case Discussion)	29 Sep-3 Oct 2019
	Troubleshooting ventilator (Workshop) and SGD versus ETT for laparoscopic surgery (Pro-Con Debate). In: 11 th National and 1 st International Conference of the Indian College of Anaesthesiologists, ICACON 2019, SGRH; New Delhi, India	5-8 Sep 2019
	Authentication of published research. In: RSACPCON 2019; Pt.B.D.Sharma PGIMS; Rohtak (Panel discussion).	26-28 Apr 2019
	Workshop attended: 10 th Interventional Perioperative Sonography Workshop and Conference” held at MAX Saket; Delhi.	22-23 Feb 2020

Publications

1. Arora V, Tyagi A, Ramanujam M, Luthra A. Intraabdominal Pressure in Non-laboring Preeclamptic vs. Normotensive Patients Undergoing Cesarean Section: A Prospective Observational Study. Acta Obstet Gynecol Scand. 2019 Oct 23. doi: 10.1111/aogs.13757. [Epub ahead of print]
2. Chilkoti GT, Karthik G, Rautela R. Evaluation of postoperative analgesic efficacy and perioperative hemodynamic changes with low dose intravenous dexmedetomidine infusion in patients undergoing laparoscopic cholecystectomy - A randomised, double-blinded, placebo-controlled trial. J Anaesthesiol Clin Pharmacol. 2020 Jan-March; 36(1):72-77.
3. Chilkoti GT, Singh A, Mohta M, Saxena AK. Perioperative stress dose of corticosteroids: Pharmacological and clinical perspective. J Anaesthesiol Clin Pharmacol 2019 April-June; 35: 147-52.
4. Chopra AK, Bajaj M, Saxena AK, Talwar H, Yadav N, Chilkoti GT. Pulse radiofrequency lesioning at multiple trigger points around the scar for management of chronic persistent postsurgical neuropathic pain following total abdominal hysterectomy. Indian J Pain 2019; 33 (2):109-111.

5. Chugh V, Tyagi A, Arora V, Tyagi A, Das S. Low tidal volume ventilation strategy and organ functions in patients with pre-existing systemic inflammatory response. *J Anaesthesiol Clin Pharmacol* 2019; 35: 460-467.
6. Das N, Kaur M, Chaudhary S, Kumar M, Salhotra R, Chauhan J. Magnesium sulphate as an adjuvant to epidural ropivacaine for postoperative analgesia in patients undergoing vaginal hysterectomy. *Academia Anesthesiologica International* 2019; 4 (2): 276-80.
7. Garg D, Tyagi A. Intra-abdominal hypertension in pregnancy: Need for generating more evidence before providing sound clinical management recommendations. *Acta Obstet Gynecol Scand* 2019; 98: 1485.
8. Kaur N, Kumar R, Jain A, Saxena AK. Sensory changes and Postmastectomy Pain following preservation of intercostobrachial nerve in breast cancer surgery: a prospective randomized study. *Indian J Surg Oncol* 2020;1193-1195 doi [http:// doi.org/10.100/s 13193-020-01193-5](http://doi.org/10.100/s 13193-020-01193-5)
9. Luthra A, Tyagi A. [TIMP-2]*[IGFBP7] for predicting early AKI. *Anaesth Crit Care Pain Med* 2019; 38: 677.
10. Mohta M, Dubey M, Malhotra RK, Tyagi A. Comparison of the potency of phenylephrine and norepinephrine bolus doses used to treat post-spinal hypotension during elective caesarean section. *Int J Obstet Anesth* 2019; 38: 25-31.
11. Mohta M, Garg A, Chilkoti GT, Malhotra RK. A randomised controlled trial of phenylephrine and noradrenaline boluses for treatment of postspinal hypotension during elective caesarean section. *Anaesthesia* 2019; 74: 850-5.
12. Ramanujam M, Gulati S, Tyagi A. Malignant hyperthermia: An Indian perspective. *J Anaesthesiol Clin Pharmacol* 2019; 35: 557-558.
13. Ramanujam M, Tyagi A, Garg D. Chicken pox in pregnancy: Choice of anaesthetic technique. *Indian J Anaesth* 2019; 63: 501-3.
14. Salhotra R. Ultrasound-guided truncal/plane blocks: Are they safe in anticoagulated patients? *J Anaesthesiol Clin Pharmacol* 2020; 36:118-20.
15. Saxena AK, Chilkoti GT, Singh A, Yadav G. Pregnancy induced low back pain in Indian women: prevalence, risk factors and correlation with serum calcium levels. *Anaesth Essays Res* 2019; 13: 395-402.
16. Saxena AK, Choudhary S, Gaur D. "Abdominal pain" in COVID-19 patients: A conundrum for the pain physician. *Indian J Pain*. 2020; 30 (2); 128-130. DOI: 10.4103/ijpn.ijpn_63_20.
17. Saxena AK, Malik A. The dawn of a new era on research on precision medicine for pain and the scope of diagnostic biomarkers: Is it a "neurologic pain signature" and is it construct validation?? *Indian J Pain* 2020; 34:1-2. (DOI: 10.4103/ijpn.ijpn_31_20)
18. Saxena AK. PubMed Indexing of Indian Journal of Pain: Too Much in the Way of Expectations or Too Little in Terms of Original Scientific Research Data. *Indian J Pain* 2019;33:48-49
19. Sethi AK, Salhotra R, Chandra M, Mohta M, Bhatt S, Kayina CA. Confirmation of placement of endotracheal tube - A comparative observational pilot study of three ultrasound methods. *J Anaesthesiol Clin Pharmacol* 2019; 35: 353-8.
20. Tyagi A, Luthra A, Garg D. Critically Ill Obstetric Patients: Much more than Meets the Eye. *Indian J Crit Care Med* 2019; 23:493.
21. Tyagi A, Sethi AK, Salhotra R, Tyagi A. Nonpneumatic Anti-Shock Garment versus Intermittent Sequential Compression Device for Prevention of Postspinal Hypotension in Patients Undergoing Cesarean Section: A Randomized Controlled Study. *Anesth Essays Res*. 2019; 13: 383-8.

22. Yadav N, Chaudhary S, Gehlot D, Salhotra R. Comparison of intrathecal hyperbaric bupivacaine, isobaric levobupivacaine and isobaric ropivacaine with fentanyl as adjuvant in knee arthroscopy - A randomised controlled study. Indian Journal of Clinical Anaesthesia 2019; Vol 7, Issue 4. Print ISSN 2394-4781-online ISSN 2394-4994.

Other Distinctions

NAME	DISTINCTION
Dr. Chaudhary S	Executive Committee Chair of PG Anaesthesia Refresher Course held at UCMS from 21 st -25 th December 2019.
Dr. Chilkoti GT	Organizing secretary of PG Anaesthesia Refresher Course held at UCMS from 21 st -25 th December 2019.
Dr. Mohta M	Chairperson, Institutional Ethical Committee, IGESI hospital, Jhilmil.
Dr. Rautela RS	Joint Secretary of National Association of Critical Care Medicine Associate Editor of Asian Archives.
Dr. Saxena AK	Organizing chairperson of PG Anaesthesia Refresher Course held at UCMS from 21 st -25 th December 2019.

ANESTHESIA (ARMY HOSPITAL) (R&R)

Major Activities and Achievements

The department of Anesthesia is a state of the art department with 16 bedded ICU (multispeciality) and 12 OT rooms. It helps to carry out surgeries of all the surgical aspecialities and subspecialities in the institute. To tackle COVID-19 related challenges, it has helped to set up a new admission ward with separate ICU and also helped in setting up of COVID-19 ICU at Muzaffarpur.

Publications in Journals

1. Indian journal of endocrinology and metabolism, 20(5), 590–594 Voice and endocrinology. Hari Kumar, K. V., Garg, A., Ajai Chandra, N. S., Singh, S. P., & Datta, R. (2019). Voice and endocrinology. Indian journal of endocrinology and metabolism, 20(5), 590–594. doi:10.4103/2230-8210.190523
2. Garg A, Lamba N S, Chandra N S, Singhal R K, Chaudhary V. Supraglottic airway devices in short gynecological procedures: A randomized, clinical study comparing the Baska® mask and I-Gel® device. J Family Med Prim Care 2019;8:1134-7
3. Mohta ,A Garg G Chilkoti&R Malhotra. A randomised controlled trial of phenylephrine and noradrenaline boluses for treatment of postspinal hypotension during elective caesarean section. Anaesthesia 2019. 74. 10.1111/anae.14675.
4. Dr Anurag Garg. Meningitis after sub arachnoid block:Its not that uncommon!! Indian Journal of Applied Research : Volume-9 | Issue-10 | October-2019
5. Dr Onkar Singh, Dr Satyendra Narayan Singh, Dr Sunil Gaba, Anurag Garg. Case report: rare case of neglected clinodactyly: managed satisfactorily with reverse wedge osteotomy.ParipeX Indian Journal Of Research : Volume-8 | Issue-9 | September-2019

6. Garg, Anurag & Shankhyan, Vikas & Chandra, Ajai & Sharma, Vivek & Anadure, Ravi. (2020). Safe Operation Theatre and Intensive Care Unit during COVID-19 Pandemic: An Innovative Way to Widen the Safety Net. *Journal of Neuroanaesthesiology and Critical Care*. 7. 10.1055/s-0040-1716427.

Editorial board of Journals

1. Col Amit Dua, Reviewer in *Indian Journal of Pain*

Research projects undertaken

1. AFMRC (Armed Forces Medical Research Committee): A Prospective observational and correlative study to assess and monitor renal function in patients undergoing on pump CABG using NIRS value and NGAL scoring, Col Naresh Dhawan

Departmental Research Projects undertaken

1. Comparison of 3% hypertonic saline and 20% mannitol in reducing cerebral edema following ischemia or Hemorrhagic cerebri vascular accident. Gp Capt Manish Dhawan
2. Cardiac Dysfunction in critically ill patients. Gp Capt Manish Dhawan

Presentations in conferences/seminars

1. Therapeutic hypothermia as a neuroprotective strategy, ISA Annual Conference, Delhi State Chapter, Gp Capt Manish Dhawan
2. What to do after cardiac arrest: Targeted temperature management and post arrest care at Annual Critical Care Refresher course, mar 2020, Gp Capt Manish Dhawan

Extension and outreach activities

1. Covid centre muzaffarpur estd and ICU managed by Anaesthesists of AHRR

BIOCHEMISTRY (LHMC)

Major Activities and Achievements

1. Genetic methodologies at Deptt of Biochemistry, LHMC
2. Stem cells workshop at Sir Ganga Ram Hospital
3. Intravascular imaging workshop at G.B.pant Hospital
4. Radiological Assessment of Atherosclerosis workshop at Dr R.M.L.Hospital

Honours/Distinctions

Dr. Anju Jain

- Training for Editors by Jaypee journals on 10th Apr 2019.
- Judge for Young Scientist award at SGRH on 25th Apr 2019.
- Head, Department of Biochemistry FMS, Delhi University from August to November 2019.

- Subject expert for Standing Selection Committee for Faculty post of NEIGRIMS Shillong on 3rd Oct 2019 held at ICMR New Delhi.

Dr Ritu Singh

- Awarded Fellowship of Indian Society for Atherosclerosis research , Nov 2019
- Elected National President of the Indian Society for Atherosclerosis research (ISAR) which is a member society of International atherosclerosis Society , Italy
- Awarded Research medal for work on Paroxonase 2 in Stroke in Nov 2019
- Associate Editor of Journal of Atherosclerosis and Metabolic Research
- Member of MoHFW committee for establishment of Biochemistry lab in new 100 bedded Najafgarh hospital

Dr Ekta Debnath

- Six months fellowship Training in Division of Genetics, Deptt of Paediatrics, AIIMS New Delhi w,e.f 16th Oct 2019 under DBT-UMMID Initiative by permission of Ministry of Health and family welfare.

Dr. Mukesh Kr. Meena

- Executive Member of Indian Society of Atherosclerosis Research of India in 2019.

Publications

- Dudeja S, Gupta S, Sharma S, Jain A, Sharma S, Jain P, Aneja S, Chandra J. Incidence of vincristine induced neurotoxicity in children with acute lymphoblastic leukemia and its correlation with nutritional deficiencies. Paediatric Hematology and Oncology. 2019; 36(6): 344-51.
- Meena MK, Yadav C, Varma M, Jain A. Comparison of Glycemic Status and Insulin Resistance before and after Sleeve Gastrectomy in Morbid Obese Patients with Type 2 Diabetes Mellitus. Indian J Med Biochem. 2019; 23(3): 331-34.
- Tasnim S, Singh R, Chandra S, Dawar R, Bhattacharjee J, Tyagi S. Matrix metalloproteinases-9 (mmp-9) gene polymorphisms in patients with or without family history of myocardial infarction. IJCAR. 2019; 8(6): 19313-19.
- Dawar R, Singh R, Gurtoo A. Haplotype Analysis Of Apolipoprotein A1 Gene Polymorphism For Effect On Serum HDL And Apolipoprotein A1 Levels. Clinica Chimica Acta. 2019; 493(S1): S76-S84.
- Debnath E, Shankar V, Gogoi P, Debnath PR. Effect of Vitamin D supplementation on calcium homeostasis in psoriasis. International Journal of Research and Review. 2019; 6(11): 472-477.
- Chauhan P, Gogoi P, Chetiwal R. Evaluation of Angiotensin II and ACE Activity on Acute Exacerbations of Chronic Obstructive Pulmonary Disease. Ind Jn of Applied Research. 2019; 9(8): 26-28.
- Dudi P, Goyal B, Saxena V, Rabari K, Mirza AA, Naithani M, Kumar T, Goyal R. Single point insulin sensitivity estimator as an index for insulin sensitivity for metabolic syndrome: A study in North Indian population. 2019. Journal of laboratory physicians;11(3): 244-48.

- Rajeev G, Nandkeoliar MK. Assessment of Acanthosis Nigricans and its relation with insulin resistance in newly diagnosed Young Type 2 Diabetics. 2019. Sch J App Med Sci; 7(9): 3216-19.
- Tomar A, Puri M, Mishra J, Jain A. Association of First Trimester Vitamin B12 Status with Serum Homocysteine Levels in Pregnancy. Pan Asian J Obs Gyn 2019;2(3):106-109.
- Pasricha N, Aggarwal R, Jain SK, Prakash A, Jain A. Insulin resistance in transfusion dependent adult beta thalassemia major subjects with metabolic syndrome. *J Assoc Physicians India*. 2020;68(1):84.
- Mishra J, Tomar A, Puri M, Jain A, Saraswathy KN. Trends of Folate, Vitamin B12, and Homocysteine levels in different trimesters of pregnancy and pregnancy outcomes. *American J. of Human Biology*. 2020;e23388. <https://doi.org/10.1002/ajhb.23388>

Books /chapters contributed

Dr Ritu Singh & Dr Rajeev Goyal " SAE of Lippincott Illustrated Reviews Biochemistry " which is a long standing book of International repute by the Wolters Kluwer Publishing House. This is a work in progress and the book is being majorly over-hauled as per MCI-CBME curriculum and competencies to suit doctors of all Asian countries

Goyal R, Jialal I. Hyperphosphatemia. *StatPearls*. Treasure Island (FL): StatPearls Publishing; 2019 Dec 11. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31869067>

Journals Published/ Edited

- Dr. Anju Jain
 - a. Editor in chief – Indian Journal of Medical Biochemistry.
 - b. President – Elect AMBI
- Dr. Ritu Singh- Associate Editor of journal of Atherosclerosis and metabolic disorders
- Dr. Rajeev Goyal- Appointed as Assistant Editor, Indian Journal of Medical Biochemistry.

Research Projects

Name of Investigators	Project Incharge	Title of the Project Scheme	Name of the Funding Agency	Budget in Rs.
Research projects with funding				
Dr. Ritu Singh Dr. Sanjay Tyagi Dr. J. Bhattacharjee Dr. Parul Goyal Dr. Mukesh Meena	Dr. Ritu Singh	Study of Genetic and proteomic biomarkers of inflammatory and matrix remodelling pathways having significance in myocardial infarction. (In collaboration with deptt of cardiology, G.B. Pant hospital)	DHR-MoHFW	29 lacs
Dr. Mukesh Meena Dr. Ritu Singh Dr. Anupam Prakash	Dr. Ritu Singh	Study of genetic polymorphisms and gene expressions of Interleukin-6, Interleukin-10 and Tumor necrosis factor-alpha in patients with type 2 diabetes mellitus	DBT	Approx 18 lacs

Dr. Ekta Debnath	Dr. Manisha Kumar	“Establishment of Diagnostic Centre DBTNIDAN- Kendra” and Outreach programme for aspirational district under UMMID initiative for beta thalassemia and sickle cell anaemia carrier screening, couple screening abd pre-natal diagnosis, DMD carrier screening, New born screening for G-6PD, Congenital adrenal hyperplasia, biotinidase deficiency, congenital hypothyroidism and galactosemia	DBT	4 crore
Dr. Ekta Debnath	Dr. Manisha Kumar	“Study of serial change in placental profile during pregnancy and its role in predicting hypertension in pregnancy”	DHR-MoHFW	50 lakhs
Non-funded projects				
Dr. Anju Jain Dr. Ekta Debnath Dr. Sarita Beri	Dr. Rajiv Garg	“Genetic polymorphism of methylene tetra hydro folate reductase (MTHFR) and inheritance of morphological traits in primary open angle glaucoma and angle closure disease in Northern India” project initialized on 5th Nov 2011	CSIR	

• **Seminars Organized- and Conferences Organized**

S. No.	Faculty Member	Organizer (s)	Name, Venue & Date
1	Dr. Anju Jain Dr. Smita Tripathi Dr. Rajeev Goyal	Deptt of biochemistry, LHMC, New Delhi	Workshop on infection control in clinical biochemistry lab. 1st-2nd Apr under biochemistry under Kayakalp programme under aegis of swacchata pakhwara 1st-15th Apr
2	Organising Secretary Dr. Ritu Singh Joint Organising. Sec. Dr. Parul Goyal Dr. Seema Bhargava Dr. H.V. Singh Dr. Smita Tripathi Dr. Mukesh Meena Convenor Oral Presentation Dr. Preeti Chauhan Convenor Poster presentation Dr. Rajeev Goyal Convenor Quiz Dr. Parijat Gogoi Treasurer Dr. Ekta Debnath	Department of Biochemistry with Indian society for atherosclerosis research (ISAR) Affiliated to International Atherosclerosis Society (IAS) based at Milan, Italy	32nd Annual conference of Indian society for atherosclerosis research and international symposia on atherosclerosis LHMC and SSKH hospital with preconference workshops in 1. Genetic methodologies at Deptt of Biochemistry, LHMC 2. Stem cells workshop at Sir Ganga Ram Hospital 3. Intravascular imaging workshop at G.B. Pant Hospital 4. Radiological Assessment of Atherosclerosis workshop at Dr. R.M.L. Hospital, 8th-10th Nov 2019

3	Dr. Ritu Singh Dr. Smita tripathi Dr. Preeti Chauhan Dr. Rajeev Goyal	Department of Biochemistry under aegis of Indian society for atherosclerosis research	ISAR pre-conference workshop on Genetic Methodologies LHMC & SSKH, New Delhi 7th Nov 2019
4	Dr. Ritu Singh Dr. Parijat Gogoi	Medical Education Unit, LHMC	Stress Management Workshop” for MBBS students under Student Leadership Mission, (MEU) 1st Mar 2019 and also in the Foundation course of new CBME curriculum in Aug 2019
5	Dr. Preeti Chauhan	Dr. Preeti Chauhan & e-hospital committee, LHMC	Organized CME on E-Hospital module in LHMC and associated hospitals
6	Dr. Rajeev Goyal	Dr. Rajeev Goyal & Association of medical biochemists of India, Delhi Chapter with Dr. Lal Pathlabs	1st Annual CME of Deptt of Clinical Chemistry & Biochemical Genetics, Dr. Lal Path Labs under the aegis of Association of Medical Biochemists of India, Delhi Chapter, New Delhi 2nd Nov 2019

Other Inter-Institutional Collaboration

- A. Dr Ritu Singh - Organisation of the International Conference on 32nd Annual conference of Indian Society for Atherosclerosis research and International Symposia on Atherosclerosis on “ New Insights in Atherosclerosis – from etiopathogenesis to clinical management “8th-10th Nov 2019 at LHMC and SSKH hospital with pre-conference workshops scheduled for 7th Nov 2019 in major tertiary care Hospitals viz. Sir Ganga Ram Hospital . Dr RML Hospital ,G.B.Pant Hospital and LHMC
- B. Dr Ekta Debnath with Mewat aspirational district- Launch of UMMID - UNIQUE METHODS OF MANAGEMENT AND TREATMENT OF INHERITED DISORDERS Initiative and Inauguration of NIDAN - NATIONAL INHERITED DISEASES ADMINISTRATION Kendra Network

Faculty Strength

Director Professor: 2
Dr. Ritu Singh
Professor: 2
Associate Professor: 3
Assistant Professor: 1
Assistant Professor (contract) : 1

BIOCHEMISTRY (MAMC)

1. Major Activities and Achievements

The Department is involved in teaching of undergraduate medical students and postgraduate MD training and includes able and qualified faculties, assisted by senior / junior residents and other supporting staff. We run a 24 hrs Clinical Biochemistry lab where various routine and emergency Biochemistry parameters are done using automated Clinical Chemistry analysers. We are also running various special tests like hormone assays, tumor markers, vitamin levels (vit D, Vit B12, Folate) and Iron studies (Ferritin) using Electrochemiluminescence analyzers. We are also performing serum protein electrophoresis using capillary electrophoresis technique alongwith Immunotyping and Immunofixation.

We are also involved in research on various clinical aspects like Diabetes, Atherosclerosis, Breast cancer, ovarian cancer and effect of pesticides on health. We also have a cell culture lab for research purpose.

Publications

1. Singh, V. K., Sarkar, S. K., Saxena, A., &Koner, B. C. (2019). Effect of Subtoxic DDT Exposure on Glucose Uptake and Insulin Signaling in Rat L6 Myoblast-Derived Myotubes. *International Journal of Toxicology*, 38(4), 303–311. <https://doi.org/10.1177/1091581819850577>
2. Mariam, W., Garg, S., Singh, M. M., Koner, B. C., Anuradha, S., & Basu, S. (2019). Vitamin D status, determinants and relationship with biochemical profile in women with Type 2 Diabetes Mellitus in Delhi, India. *Diabetes & metabolic syndrome*, 13(2), 1517–1521. <https://doi.org/10.1016/j.dsx.2019.03.005>
3. Krishnamurthy, K., Mishra, T. K., Saxena, A., Daga, M. K., Khurana, N., Masroor, M., &Jamatia, E. (2019). Evaluating NISCH and CDH1 Promoter Hypermethylation in Nonsmokers, Cancer Free Smokers and Lung Cancer Patients: A Case Control Study. *Indian journal of clinical biochemistry : IJCB*, 34(4), 458–464. <https://doi.org/10.1007/s12291-018-0767-5>
4. Lodh, M., Debnath, N., Mazumdar, D., Banerjee, B., &Goswami, B. (2019). Anthropometric and biochemical characteristics of adult patients with non-alcoholic fatty liver disease. *Asian Journal of Pharmaceutical and Clinical Research*, 12(1), 501-505. <https://doi.org/10.22159/ajpcr.2019.v12i1.29278>.
5. Jamatia E, Das J, Goswami B, Kaushik S, Koner BC.(2019) Evaluation of Effectiveness of Academic Debate: An Experiment with Creative Andragogy in Medical Biochemistry for Undergraduate Students. *Journal of Research in Medical Education & Ethics*, 9(1), 79-87.
6. Huchegowda R, Kumawat R, Goswami B, Lali P, Gowda SH.(2019) Derivation of a new formula for the estimation of low-density lipoprotein cholesterol. *Indian Journal of Health Sciences and Biomedical Research (KLEU)*,Sep 1, 12(3), 223.
7. Gulia R, Goswami B.(2019). Comparability Assessment of Serum Electrolytes on Different Autoanalysers Working on the Same Principle. *National Journal of Laboratory Medicine*, 8(2), 12-15. DOI: 10.7860/NJLM/2019/40678:2354
8. Verma R, Gupta SK, Girish M P , Gupta M. (2019). Study of serum endothelial lipase levels and its gene polymorphism (LIPG 584C/T) in coronary heart disease in Indian population. *Int J Clin Biochem Res*, 6(4), 611-617.

9. Sumi MP, Guru SA, Sahu S, Khan B, Mp G, Saxena A.(2019) “Role of HFE gene in coronary artery disease”—A study from India. *Clinical Epidemiology and Global Health*, 8(2), 469-72.
10. Mirza MAB, Guru SA, Abdullah SM, Rizvi A, Saxena A.(2019) MicroRNA-21 Expression as Prognostic and Therapeutic Response Marker in Chronic Myeloid Leukaemia Patients.*Asian Pac J Cancer Prev*, 20(8), 2379-2383. doi: 10.31557/APJCP.2019.20.8.2379. PMID: 31450909
11. Ali Beg MM, Fahdil SR, Yadav P, Shukla KK, Mohan A, Saxena A. Association of EGFR 1 Gene Alteration and their Association with Lung Adenocarcinoma Patients. *Asian Pac J Cancer Prev*. 2019 Mar 26;20(3):825-830. PMID:30912007
12. Sumi MP, Guru SA, Mir R, Masroor M, Bhat MA, Girish MP, Saxena A. Clinical Importance of Estrogen Receptor 1 (ESR1) Gene Polymorphisms and Their Expression Patterns in Coronary Artery Disease Patients: A Study from India. *Indian J Clin Biochem*. 2019 Apr;34(2):133-142. doi: 10.1007/s12291-019-00827-y.
13. Sameer Ahmad Guru, Masroor Ali Beg Mirza, Saleh Mohammed Abdullah, Aliya Rizvi, and Alpana Saxena. microRNA-21 Expression as Prognostic and Therapeutic Response Marker in Chronic Myeloid Leukaemia Patients. *Asian Pac J Cancer Prev*.2019;20(8):2379–2383. 10.31557/APJCP.2019.20.8.2379.
14. Saxena S, Gautam RK, Gupta A, Chitkara A. (2020). Evaluation of systemic oxidative stress in patients with premature canities and correlation of severity of hair graying with the degree of redox imbalance. *Int J Trichol.*,12, 16-23.
15. Gautam, R. K., Singh, Y., Gupta, A., Arora, P., Khurana, A., & Chitkara, A. (2020). The profile of cytokines (IL-2, IFN- γ , IL-4, IL-10, IL-17A, and IL-23) in active alopecia areata. *Journal of cosmetic dermatology*, 19(1), 234–240.
16. Raghavendra H, Varsha KS , Shivendar Sobti , Bhaskar S , Ajay Choudary , Gupta LN and Anubhuti. 2019. Can serum biomarkers prognosticate outcome of traumatic brain injury (TBI)?*Journal of Medical and Scientific research*; 7(2):43-50.
17. Kulshreshtha B, Sharma N, Pant S, Prasad A, Chitkara A, Pahuja B, Pahuja I. (2019). Predictors of metabolic syndrome among polycystic ovary syndrome sisters.*Journal of Human Reproductive Sciences*, 12, 334-340.
18. Sankar, J., Ismail, J., Das, R., Dev, N., Chitkara, A., & Sankar, M. J. (2019). Effect of Severe Vitamin D Deficiency at Admission on Shock Reversal in Children With Septic Shock: A Prospective Observational Study. *Journal of intensive care medicine*, 34(5), 397–403.

Journals

Dr. Binita Goswami is serving as Associate Editor of Indian Journal of Medical Biochemistry.

Research Projects

a) Ongoing projects

1. Funded project of Rs. 2.5 lakhs, entitled “Effect of exposure to Bisphenol A and its analogue plasticizers on production of thyroid hormones in transformed thyroid cell line and on function of thyroid hormone in rat L6 myoblast derived myotubes.” Dr. B.C Koner
2. GNCT funded project of Rs. 3 lakhs, entitled “Association of NADH dehydrogenase subunit 1 (ND1) gene polymorphism and serum leptin levels in pre-eclampsia patients”. Dr. P. Lali
3. GNCT funded project of Rs. 3 lakhs, entitled “Assessment of Serum Leptin levels and tRNA MRU Leu(UUR) gene and ND1 gene polymorphism in Gestational Diabetes Mellitus patients”. Dr. L. Chandra.
4. MRU funded project of Rs. 3 lakhs, entitled “Association of pesticide levels and their genetic determinants with ovarian reserve in females with primary infertility.” Dr. B. Goswami
5. Evaluation of interaction between lindane and arsenic exposures in inducing insulin resistance in rat l6 myoblast derived myotube. Dr. BC Koner
6. Association of serum Resistin level and MMP-9 gene (1562 C/T) polymorphism in Coronary artery disease and Diabetes Mellitus. Dr. L. Chandra.
7. Association between Fibroblast Growth Factor Receptor 2 (FGFR2) gene polymorphism (rs2981582) and Survivin expression in breast cancer Dr. B. Goswami
8. Evaluation of serum levels of osteopontin and folate receptor alpha as diagnostic and prognostic biomarkers of ovarian carcinoma. Dr. S. Kaushik.
9. The diagnostic and pathogenetic significance of circular-RNA-000911 and micro-RNA-449a in breast cancer. Dr. B. Goswami
10. Association between androgen receptor gene G1733A (rs6152) polymorphism and ovarian cancer in Indian population. Dr. S. Kaushik.

Conferences /organized

A CME on “Role of Lab Diagnosis in immunologic disorders” was organised by the department on 16th March 2019.

Seminar/ Conference presentations

1. Dr. Elvia received the travel grant for presenting a poster on “ Association of PON1 gene polymorphism and serum levels of Paraoxonase and malondialdehyde in patients with Metabolic syndrome” at the annual meeting of the Korean Society of Lab Medicine LMCE 2019, at Busan, South Korea (Abstract no. 231)
2. Dr. Parama received the travel grant for presenting a poster on “ Evaluation Of Directly Measured LDL-Cholesterol In Assessing The Cardiovascular Risk Defined By Total Cholesterol/HDL-Cholesterol Ratio” at the annual meeting of the Korean Society of Lab Medicine LMCE 2019, at Busan, South Korea (Abstract no. 166)
3. Dr. Vatsala presented a free oral paper on “Extremely high CK-MB levels exceeding total CK levels in a 2 months old infant: a case report.” in AMBICON 2019.
4. Dr. Shailata was awarded the third best poster for “Protein C and S deficiency in acute mesenteric ischaemia: a case report” at AMBICON 2019.

5. Dr. Sameer Ahmad Guru presented an oral paper on “JAK2 (V617F) positively regulates PD-L1 mRNA expression via STAT3/5 activation in MNP (PV and ET) patients” at the 17th Japanese Society of Medical Oncology (JSMO), annual meeting, Kobe Japan in 2019.
6. Mr. Vijay Kumar Singh presented an oral paper on “Evaluation of association of oxidative stress and TNF- α with insulinresistance and β -cell dysfunction on sub-chronic exposure of DDT and lindane in wistar albino rats.” at the 5th World Congress on Chronomedicine WCC-UC 2019, Indian Society for Chronomedicine in Collaboration with Uttarakhand Cardiabcon) at AIIMS, Rishikesh.

Number of Ph.D. Degrees awarded: Three

Faculty strength: Eight

BIOCHEMISTRY (UCMS)

Major Activities and Achievements

The Department has made significant progress in undergraduate and post graduate training as well as research. Currently there are 08 students registered for Ph.D under various faculty members, 01 post doc research associate and 01 MD student. Many faculty members were invited for presenting research papers at reputed national and international conferences. Many of them are also holding eminent positions in various national and international expert /technical/reviewer committees. Currently there are three ongoing research projects in the Department of Biochemistry. The faculty members have published many research articles individually as well as in collaboration with other departments, in peer reviewed International/National journals of high impact factor.

Publications

- Agarwal R, Priyadarshini P, Mehndiratta M, (2019) Serum procalcitonin in pregnancy-associated sepsis: A case control study. *S Afr J Obs Gynae.* 2019;25:15-9.
- Agarwal R, Jaiswal N, Kar R, Singh A, Srivastava H. (2020). Is serum fibrinogen an affirmative marker for vaginal delivery without PPH? *The New Indian Journal of OBGY*, 6(2): 113-8
- Agarwal R, Kumari N, Kar R, Chandra N, Nimesh A, Singh A, Radhakrishnan G. (2019) Evaluation of Placental VEGFA mRNA Expression in Preeclampsia: A Case Control Study. *The Journal of Obstetrics and Gynecology of India.* 69(2):142-8.
- Ghosh T, Suke SG, Yadav C, Ahmed R, Banerjee BD. (2019). Ashwagandha reverses the dieldrin-induced cognitive impairment by modulation of oxidative stress in rat brain. *Phcog Res*;11:108-13.
- Jain N B, Yadav A, Shankar N, Ahmed R. (2019). Correlation of C1q/TNF-Related Protein-3with Cardiac Autonomic Tone and Metabolic Parameters in Obesity. *Int. J. Endocrinol Metab*; 17(2):e74250
- Jha PK, Jahid M, Avasthi R, Ahmed RS, Banerjee BD. (2019). Tumour Necrosis Factor α Gene Polymorphism in Rheumatoid Arthritis and its Association with Oxidative Stress and Dyslipidemia. *JCDR*;13(6):25-29.s
- Jha PK, Ahmed RS, Agarawal R. (2019). Comparative analysis on association of fasting and postprandial dyslipidemia with risk of athrosclerosis in early rheumatoid arthritis. *Asian J. Med. Sci*;10(3):7-12.

- Jhamb, R., Gauraw, A. K., Kar, R., Gogoi, P., & Avasthi, R. (2019). A Comparative Study of Serum Matrix Metalloproteinase-9 in Tuberculous Meningitis with and Without Stroke. *International Journal of Healthcare and Medical Sciences*, 5(8), 37-41.
- Jhamb R, Singh B, Kar R, Gogoi P, MADhu SV. (2019). A comparative study of serum vascular endothelial growth factor in patients with tuberculous meningitis with and without stroke. *Med Clin Arch*, 3:1-5
- Halder S, Kar R, Chakraborty S, Bhattacharya SK, Mediratta PK, Banerjee BD.(2019) Cadmium level in brain correlates with memory impairment in F1 and F2 generation mice: improvement with quercetin. *Environ Sci Pollut Res Int*. Feb 7. doi: 10.1007/s11356-019-04283-2
- Khan MA, Ahmed RS, Chandra N, Arora VK, Ali A. (2019). In vivo, Extract from *Withaniasomnifera* Root Ameliorates Arthritis via Regulation of Key Immune Mediators of Inflammation in Experimental Model of Arthritis. *Antiinflamm Antiallergy Agents Med Chem*;18(1):55-70.
- Khan MA, Khurana N,Ahmed RS, Umar S, Hasnath A, Sarwar MG, Alam Q, Kamal MA, Ashraf GM. Chemokines: A Potential Therapeutic Target to Suppress Autoimmune Arthritis.2019; 25, 1-10.
- Madhu SV, Siddiqui A, Desai NG, Sharma SB, Bansal AK. (2019). Chronic stress, sense of coherence and risk of type 2 diabetes mellitus. *Diabetes & Metabolic syndrome: Clinical Research & Reviews*, 13;18-23

Research Project

DBT , 2014-2019, PI: Dr. Rajarshi Kar, "Primary cultures of epithelial ovarian cancer as a tool to detect resistance to chemotherapeutic agents – a pilot study, Rs.25 lakhs

ICMR, 2017-2019, PI: Dr. Mohit Mehndiratta, Role of vitamins (A, C, D and E), telomere biology and Keap1-Nrf2-ARE pathway in the development of idiopathic preterm prelabour rupture of membranes. Rs. 22,31,260/-

AYUSH, 2016-2019, PI: Dr Rafat S Ahmed , Experimental studies to assess the efficacy of commonly used Unani formulations for improvement of cognitive functions and neuroprotection. Rs. 47,00,160/-

Patents Filed/Granted

Dr. S.B.Sharma

A process for the preparation of Alpha hydroxyl succinamic acid and its synthetic intermediates, patent has been filed on Nov,2019

- **Faculty Strength: 06 + 01(on lien) = 07**

BIOCHEMISTRY (VPCI)

Major activities and achievements:

Providing Diagnostic services for the patient care, actively involved in Research, Teaching, Supervising M.D. Medical Biochemistry students, Ph.D. Medical Biochemistry students (Pursuing: 3) and imparted training to students of other prestigious institutes. Diagnostic Services are provided to indoor & outdoor patients, samples analyzed by fully automatic autoanalyzers including AU 480 AutoAnalyzer, Beckman

Coulter & benchtop *Biochemistry Analyzer*. The total no. of tests from 01.04.19 to 31.03.20 = 60,199. One MRU project is ongoing.

Honors/Distinctions

- (i) Dr. Vishwajeet Rohil was invited as External Expert by DIPAS to attend the meeting on “Project Monitoring And Review Committee Meetings (PMRC) of XII Five Year Plan Projects held in *DIPAS*, Defence Institute of Physiology & Allied Sciences, DEFENCE RESEARCH & DEVELOPMENT ORGANISATION (DRDO), Ministry of Defence, Govt. of India on 15th Mar. 2019, 16th Mar. 2019, 25th Jul. 2019, 29th July, 2019 and 9th Sept, 2019.
- (ii) Dr. Vishwajeet Rohil was felicitated with “DELHI MEDICAL ASSOCIATION (DMA) DISTINGUISHED SERVICE AWARD” for his remarkable contribution of services as a dedicated doctor on the occasion of 105th Foundation Day celebrations of DMA conducted at DMA Hall Daryaganj, New Delhi on 18th Aug. 2019.
- (iii) Dr. Vishwajeet Rohil was invited as External Expert by DIPAS to attend the “Executive Board Review Meeting” of the project “Human Machine Interface issues for performance improvement of Indian soldiers under different occupational environment” (DIP 266), held at DRDO Bhawan, New Delhi on 19th Sept, 2019.

Publications

1. Anil Meena, Vishwajeet Rohil, Manoj Kumar, Bhagwan Singh Patidar, Sanjay Goel, Balkrishna Menon, Sunil K Chhabra, Surendra Kumar Bansal. 2020. Association of rs242940 and rs242941 SNPs of *CRHR1* gene and plasma levels of IFN- γ , IL-6, IL-10 and IL-22 cytokines in asthma. *Journal of Medical Science and Clinical Research*; 8(2), 527-536.
2. Giridhari Pal, Tapan Behl, Vishwajeet Rohil, Mimansa Khandelwal, Garima Gupta, Jyotirmoyee Jena. 2020. Evaluation of oxidative stress and its modulation by L-Arginine and L-Ascorbic acid in repetitive restraint stress model in Wistar rats. *Obesity Medicine*; 17:100172.
3. Smriti Gupta, Ajit Kumar, Vishwajeet Rohil, Anuj K. Bhatnagar. 2019. ADAM33: Role and pathogenesis study in COPD in Delhi NCR Population. *International Journal of Biological & Medical Research [Int J Biol Med Res.]* 10(1): 6623 – 6630.
4. Smriti Gupta, Ajit Kumar, Vishwajeet Rohil, Anuj K. Bhatnagar. 2019. Role of tumor necrosis alpha (TNF α) in pulmonary pathophysiology of chronic obstructive pulmonary disease. *Indian Journal of Public Health Research and Development*. 10 (7): 105-110.

Research Projects: Three

- (i) Research project: Dr. Vishwajeet Rohil as Principal Investigator.
- (a) *Funding Agency*: MRU (ICMR)
- (b) *Year/Period*: Commenced in Sept.2016
- (c) *Title*: To elucidate the role of Ellagic acid and its derivative via CRTAase in the gene expression profile of lung carcinogenesis”.
- (d) *Amount sanctioned* Out of Total 3 Crores sanctioned for MRU for all the projects

- (ii) (a) *Funding Agency* ICMR-SRF (Mr. Manoj Kumar)
- (b) *Year/period* 05.09.2018 (for Three years)
- (c) *Title* “Characterization of proteins differentially expressed erythrocyte membrane in bronchial asthma : Identification and purification of one protein and its correlation with severity of the disease
- (d) *Amount sanctioned* Rs. 7.20 Lakhs
- (iii) (a) *Funding Agency* Ph.D. student (Mr. Anil Meena)
- (b) *Year/period* (ICMR SRF for the period 28.01.2014 to 27.01.2019)
- (c) *Title* “A study on *CRHR1* and *GR* gene polymorphism and their correlation with the expression of various inflammatory cytokines in asthma in North Indian population”

Seminar/Conference Presentations

- Dr. Vishwajeet Rohil was invited and attended the 1st Annual CME organized by Department of Clinical Biochemistry & Biochemical Genetics, Dr. LalPath Labs under the aegis of Association of Medical Biochemists of India, Delhi Chapter on 2nd Nov. 2019 at Park Hotel, Connaught Place. The topic was: Hypertension & Chronic Renal Disease Role of Diagnostic Lab.
- Dr. Vishwajeet Rohil was invited and attended as a Chairperson and Judge of Poster presentation at 32nd Annual Conference of “The Indian Society for Atherosclerosis Research” (ISARCON 2019) organized by The Indian Society for Atherosclerosis Research (ISAR) in Lady Hardinge Medical College (LHMC), New Delhi from 8th Nov.2019 - 10thNov.2019.The theme of the Conference was “New Insights in Atherosclerosis – from etiopathogenesis to clinical management”.

BIOCHEMISTRY(GIPMER)

Major Activities and Achievements

For maintaining the quality of test reports the Dept participated in Bio-Rad EQAS program besides the CMC Vellore EQAS Program. Deptt organized symposium on ‘Biomarkers for the management of critical illness:An Update’. There had been around 12%increase in no of tests as compared to last year. On an average 1, 80,000 tests per month were performed. Sixteen trainees from other agencies got trained for different techniques. Deptt Published six paperin national and international journals.

Publications

- Dabla PK.Global Burden of Diabetes- Rising Expenditures on Healthcare Economy. J Endocrinol Diab. 5(6): 1-2. DOI: 10.15226/2374-6890/5/6/001120
- Ranjna chawla, Rukamani nair, V KSood, Somnath Mukherjee. March- April 2019. Effect of naturopathy oncontrol of glycemia, insulin and adiponectin levelsin a randomized control trial in type 2diabetes mellitus patients. International J of Multidisciplinary Approach and Studies (IJMAS) vol 6(2) pp 63-73
- Ranjna Chawla, Rukamani Nair, V. K. Sood, Somnath Mukherjee, Anshu Arora.**july**2019Role of naturopathy on physical and biochemical parameters in patients with Type 2 diabetes mellitus Indian J of Traditional Knowledge, **18(3)** pp430-438

- Ranjna Chawla, Rukamani Nair, Somnath Mukherjee, Yendrenbam Ibotombi Meitei, V R Sood & B.K Roy Sep – Oct 2019 Naturopathy module and its effect on biochemical parameters in patients suffering from hypothyroidism. International Journal of Multidisciplinary Approach and Studies Volume 06, No.5, Sep – Oct 2019 pp29-42
- Serdarevic N, Dabla PK, Stanciu AE. First online: 13 feb2019. Systematic differences between total and free prostate-specific antigen immunoassays: comparison using Passing and Bablok regression. Indian Journal of Clinical Biochemistry. First online: 13 feb2019.
- Sancesario G, Perrone MA, Pellegrin C, Lalongo C, Aita A, Dabla PK. 2019 Laboratory Medicine: the specialists of tomorrow. Biochimica clinica. Documents.. DOI: 10.19186/BC_2019.039
- Deepika Negi, Aadithya B. Urs, Priya Kumar, Bhawna Mahajan, Hanspal Singh, Sunil K. Polipalli, Seema Kapoor. Assessment of Interleukin-18 gene polymorphism and serum levels in oral lichen planus in an Indian population. J Oral Path Med 2019; 48(3): 244-250
- 223 Association of levels of IL-6, IL-10, IL-18 and TNF-alpha with rheumatic mitral stenosis and subsequent pulmonary hypertension GAURAV Tripathi, SANJAY Tyagi, Bhawna Mahajan, Vimal Mehta *European Heart Journal*, Volume 41, Issue Supplement_1, January 2020,
- Kalpana Singh, Bhawna Mahajan, Neha Srivastava, Nisha Singh. Relevance of fasting plasma glucose for diagnosing gestational diabetes mellitus. International Journal of Biomedical Research 2019; 10(01): e4989
- Mohit. Gupta, Girish MP, Anand Kategari, Vishal Batra, Puneet Gupta, Ankit Bansal, Jamalyusuf, Shweta Goswami, Abhijit Das, Rajni Saijpaul, **Bhawna Mahajan**, Saibal Mukhopadhyay, Vijay Trehan, Sanjay Tyagi. Epidemiological profile and management patterns of acute myocardial infarction in very young patients from a tertiary care center. Indian Heart Journal. Volume 72, Issue 1, 2020, Pages 32-39

Journals

Teachers serving as Editors-

Dr Pradeep Kumar Dabla

1. Editorial board Member: World Journal of Diabetes; Number ID: 03764245; ISSN: 1948-9358 (online).
2. Editorial Board Member; Clinical Chemistry and Laboratory Medicine; OCLC number: 475036853 ISSN: 1434-6621 (print); 1437-4331 (web)
3. Ambassador Bentham Science publishers.

Conferences Organized

Deptt Organized symposium on 'Biomarkers for the management of critical illness: An Update' on 20th December 2019 in Auditorium, GB Pant Institute of Post Graduate Medical Education & Research. Organizing Chairperson- Dr Manju Subberwal

Organizing Secretary- Dr Bhawna Mahajan

Members Organizing Committee- Dr VK Gupta Dr Pradeep Dabla, Dr Ranjna Chawla

Seminar/Conference Presentations

- Invited Speaker & Chair & Trainer for workshop at APFCB Congress Nov 2019; Dr Pradeep Kumar Dabla
- Invited Speaker at 23rd IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine in Barcelona, Spain, 19-23 May 2019; Dr Pradeep Kumar Dabla
- Invited Speaker for talk & Trainer for workshop at FOPPCON 2019 Feb– Confluence of Pathologists for Patient Care, Jaipur Rajasthan; Dr Pradeep Kumar Dabla
- Attended National workshop on Health care waste Management , Environmental & Occupational Safety 2019 , Delhi Dr Bhawna Mahajan
- Attended Curriculum Development & Implementation (CDI) workshop, held from 25-27 September, 2019, at MCI Regional Centre; Department of Medical Education, Maulana Azad Medical College, New Delhi. Dr Bhawna Mahajan
- Attended Pre conference workshop on Laboratory diagnosis of Plasma dyscrasia. “AMBICON 2019” 12th December, 2019 at Dayanand Medical College & Hospital, Ludhiana. Dr Bhawna Mahajan
- Attended NABL Assessor’s Conclave 2019 , New Delhi Dr Bhawna Mahajan
- Annual CME, organized under the aegis of Association of Medical Biochemists of India, Delhi Chapter on “Hypertension & Chronic Renal Disease: Role of Diagnostic Labs”. Dr Bhawna Mahajan
- National conference of The Association of Medical Biochemists of India. “AMBICON 2019” at Dayanand Medical College & Hospital, Ludhiana by Department of Biochemistry, Dayanand Medical College & Hospital, Ludhiana Dr Bhawna Mahajan

Faculty Strength

Professor - 2

Associate Professor - 1

Scientist - 1

CARDIOLOGY

(G. B. PANT INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION & RESEARCH)

Major activities and achievements:

The department is the leading cardiology center in the country with highest number of interventions in the country. Numerous collaborative research projects have been carried within and with institutes of repute. The department has procured new state of art treadmill and Holter machines. Newer procedures and techniques of coronary, structural and peripheral interventions have been devised and used for giving appropriate care to the patients. The department faculty is actively involved in national bodies, opinion forums and public health initiatives.

Honours and distinctions:

- Dr. Sanjay Tyagi was awarded prestigious Fellowship of Royal College of Physicians (FRCP), Edinburg UK.
- Awarded membership of American Diabetes Association (ADA) in 2019 Dr. Vimal Mehta.

- Awarded Fellowship of American College of Cardiology (FACC) in 2020 Dr. Vimal Mehta.
- Dr. Mohit Gupta was awarded prestigious Fellowship of Royal College of Physicians (FECp), Edinburgh UK.

Publications

- Mukhopadhyay S, Yusuf J et al. Effect of Successful valvuloplasty on mitral valve resistance and correlation with clinical outcome. *Journal of Heart Valve disease*. Article in press.
- Tyagi S, Batra V. Novel Therapeutic Approaches of Pulmonary Arterial Hypertension. *Int J Angiol*. 2019 Jun;28(2):112-117.
- Tyagi, S., Safal, S. & Tyagi, D. Aortitis and aortic aneurysm in systemic vasculitis. *Indian J Thorne Cardiovasc Surg* 35, 47-56(2019).
- Yusuf J, Das D, Mukhopadhyay S, Tyagi S. Correlation of QRS duration with myocardial blush grade as a marker of myocardial reperfusion in primary percutaneous coronary intervention. *Indian Heart J*. 2018 Dec;70 Suppl 3(Suppl 3):S359-S364
- Bhatt DL, Steg PG, Mehta SR, Leiter LA, Simon T, Fox K, et al. THEMIS Steering Committee and Investigators. Collaborators: Mehta V. Ticagrelor in patients with diabetes and stable coronary artery disease with a history of previous percutaneous coronary intervention (THEMIS-PCI): a phase 3 placebo-controlled, randomised trial. *Lancet*. 2019 Sep 28;394(10204): 1169- 80.
- Sawhney JPS, Mullasari A, Kahali D, Mehta V, Nair T, Kaul U, Hirematth MS. Short- and long-term follow-up of antithrombotic management patterns in patients hospitalized with acute coronary syndrome: Indian subgroup of EPICOR Asia study. *Indian Heart J*. 2019 Jan - Feb;71(1):25-31.
- Mehra P, Mehta V, Sukhija R, Sinha AK, Gupta M, Girish MP, Aronow WS. Pulmonary hypertension in left heart disease. *Arch Med Sci*. 2019 Jan; 15(1):262- 73.
- Gupta MD, Girish MP, Yadav R. The saturated fat Controversy: Finding calmness in chaos. *Indian Heart J*. 2019 May- Jun;71(3):181-3.
- Ramakrishnan S, Zachariah G, Gupta K, Shivkumar Rao J, Mohanan PP, Kothari SS, Gupta R, Bansal S, Sood S, Nath RK, Tyagi S, Trehan V, Gupta MD, Girish MP. Prevalence of hypertension among Indian adults: Results from the great India blood pressure survey. *Indian Heart J*. 2019 Jul - Aug;71(4):309-13.
- Mohit Gupta, Vishal Batra, Girish MP, Anldt Bansal and Sanjay Tyagi. TCT-304 1 Year Clinical Outcomes in Patients Implanted With Biodegradable Polymer Coated Ultrathin Strut Sirolimus-Eluting Coronary Stent System for the treatment of Very Long (? :40-mm) Lesions. *Journal of the American College of Cardiology Volume 7 4, Issue 13 Supplement, October 2019*.
- A. Velaga, A. Bansal, M.D. Gupta, M.P. Girish, V. Batra, S. Tyagi. Susceptibility Of Ctl-4 i 1661 a/G And Ace I/D Polymorphisms Towards Severity Of Valvular Rheumatic Heart Disease. *Abstracts / Indian Heart Journal 71 (2019) S30eS97*.
- A. Gupta, M.D. Gupta, M.P. Girish, S. Tyagi, S. Kurin, V. Batra, A. Bansal. Epidemiological Profile and Management Patterns Of Acute Myocardial Infarction In Very Young Patients From A Tertiary Care Centre. *Abstracts / Indian Heart Journal 71 (2019) S1eS29*.
- P. Vaidya, M.D. Gupta, M.P. Girish, S. Tyagi, S. Kurien, V. Batra, A. Bansal. Telomere Length: An

Important Biomarker for Studying Young MI And The Relevant Clinical Factors. Abstracts/ Indian Heart Journal 71 (2019) SleS29.

- V. Jindal, M.D. Gupta, M.P. Girish, V. Batra, S. Tyagi, A. Bansal. Real World Experience With Biodegradable Polymer Coated Ultra-Thin Strut Sirolimus Eluting Coronary Stent System. Abstracts / Indian Heart Journal 71 (2019) SleS29

Seminars organized

- Seminar on advanced Hemodynamic Support during Complex PCI was organized on 21/11/2019 by department of cardiology and Pioneer faculty from USA delivered a guest lecture.
- Seminar on His Bundle Pacing and Physiological pacing was organized on 21/12/2019 by department of cardiology and Pioneer faculty Dr. Xingbin Liu from West China Hospital, Sidman University, China delivered a guest lecture.

Conferences organized

- 5th MAMC-MFM Update on Pregnancy with heart disease for postgraduate students and practitioners being organized by the Department of Obstetrics and Gynecology, MAMC, New Delhi in collaboration with Dept. Of Cardiology, G.B. Pant Institute of Postgraduate Medical Education and research on the 21st December 2019 at the G. I3. Pant Auditorium, New Delhi.
- Workshop for transcatheter aortic valve implantation was organized in our department. Dr. Marian Branny from Czech Republic delivered a guest lecture on Hemodynamics in TAVR on 01/05/2019.
- Dr. Mohit Gupta (Secretary CSI Delhi Branch) organized 33rd Annual Conference of Cardiological society of India- Delhi Branch on 23-24 March 2019.
- Dr Safal and Dr Ankit Bansal organized the workshop on intravascular imaging & clinical correlation on 7th November 2019 under aegis of Indian Society for Atherosclerosis Research (ISAR CON 2019).

Books/ Chapters /Contributed:

1. Tyagi S, Bansal A. (2019) Interventions in Takayasu Arteritis (Nonspecific Aorto- Arteritis) in Essentials of Post Graduate Cardiology 2018 edited by Kewal C Goswami published by Evarigel Pubshers (rt Indla, Chapfer-71, page 586-597.
2. Tyagi S, Bansal A. (2019) Diseases of Pericardium. in API Textbook of Medicine Eleventh Edition edited by Sandhya A Karnath published by CBS Publishers and Distributors Pvt Ltd, India, Chapter 71, page 1618-1628.

COMMUNITY MEDICINE (UCMS)

Major activities and achievements

The Department of Community Medicine, University College of Medical Sciences has been at the forefront of teaching, training, health research and health care. As reflected in its collaboration with on-going multi-partner, international research projects; and professional publications, the academic as well as the service related output of the department has been outstanding. The individual distinctions achieved by its faculty

members are equally remarkable while translating their contribution to national level policies and programs. The department is running two outreach health centres – one urban and another in a rural part of Delhi, for the provision of health care service to the population as well as training in rural healthcare delivery for the residents and interns. Towards the end of the year, members of the department were actively involved in the healthcare response to the Covid 19 pandemic.

Outstanding Honors/Distinctions

Name	Distinction
Chaturvedi Sanjay	Co-Chair of the Committee for Revision of National AEFI Guidelines.
Chaturvedi Sanjay	Review Expert of National Biopharma Mission.
Chaturvedi Sanjay	Member, National Technical Advisory Committee on Rabies.
Chaturvedi Sanjay	Invited lecture at Morarji Desai National Institute of Yoga: “Lessons learnt in India for infectious disease elimination”, 3/5/19.
Bhasin, SK	Appointed University Head Community Medicine Deptt., Faculty of Medical Sciences, Delhi University w.e.f 07.06.2019
Sharma, AK	President, Society for Indoor Environment, 2019-2021
Sharma, AK	Member, Scientific Advisory Committee, ICMR-VCRC, Puducherry, 2019-2020
Sharma, AK	Member, Scientific Advisory Committee, ICMR-RMRIMS, Patna, 2019-2020
Chhabra, Pragti	Chairperson, Maternal Infant and Young Child Nutrition (MIYCN) Working Group of Indian Association of Preventive and Social Medicine (IAPSM) w.e.f. 09.03.2018
Gupta, Anita	Awarded fellowship of Indian Collage of Obstetrician &Gynecologists (FICOG) by Indian Collage of obstetrician & Gynecologists (ICOG) of FOGSI at the convocation held during the 63rd All India Congress of Obstetrics & Gynecology, on 01.02.2020 at Lucknow, Uttar Pradesh.

Publications

Publication
Chaturvedi, S. (2019). Silent drivers of childhood obesity in India [editorial]. <i>Indian J Public Health</i> ,63,91-3.
Priya, A., Chaturvedi, S., Bhasin, S.K., Bhatia, M.S., Radhakrishnan, G (2019). Are pregnant women also vulnerable to domestic violence? A community based enquiry for prevalence and predictors of domestic violence among pregnant women. <i>J Family Med Prim Care</i> , 8,1575-9.
Kelkar, H., Sharma, A.K., Chaturvedi, S (2019). Association of air pollution and lung function of young adult females in New Delhi. <i>J Health Pollution</i> ,;9.22,190611.
Arora, N.K., Das, M.K., Poluru, R; INCLIN Vaccine Safety Study Group (2020). A Prospective Cohort Study on the Safety of Infant Pentavalent (DTwP-HBV-Hib) and Oral Polio Vaccines in Two South Indian Districts. <i>Pediatr Infect Dis J</i> ,39,389-396.
Titoria, R., Upadhyay, M., Chaturvedi S. Quality of routine immunization service: Perception of clients (2020). <i>Indian J Public Health</i> ,64,44-9.
Sharma, A.K (2019). Air Pollution and Health: Ever Widening Spectrum. <i>Indian Pediatrics</i> ,56(10),823-4. https://doi.org/10.1007/s13312-019-1606-3
Kelkar, H., Sharma, A.K., Chaturvedi, S (2019). Association of air pollution and lung function of young adult

<p>females in New Delhi. <i>J Health Pollution</i>,9.22,190611.</p>
<p>Sahu M, Chhabra P, Gautam V (2019). Knowledge and parity: Perspectives of usage of emergency contraceptive pills among women of a rural area of Delhi. <i>Nigerian Medical Journal</i>, 60,(3)117-121.</p>
<p>Dugg P, Chhabra P, Sharma AK(2020). Contraceptive use and unmet need for family planning among HIV-positive women: A hospital-based study. <i>Indian Journal of Public Health</i>,64 (1),32-38.</p>
<p>Madan U, Chhabra P, Gupta G, Madan J (2019). Menopausal symptoms and quality of life in women above 40 years in an urban resettlement colony of East Delhi. <i>International Journal of Medical Science and Public Health</i>,8(7),514-519.</p>
<p>Chhabra P (2019). <i>Maternal Health</i>, New Delhi Jaypee Brothers Medical Publishers</p>
<p>Singh M, Rajoura OP, Raghvendra HA (2019). Prevalence of anaemia among adolescent school girls of Delhi: A cross sectional school based study. <i>National J Commun Medicine</i>, 10(4):187-9.</p>
<p>Patra, S., & Khan, A. M. (2019). Development and implementation of a competency-based module for teaching research methodology to medical undergraduates. <i>Journal of education and health promotion</i>, 8, 164. https://doi.org/10.4103/jehp.jehp_133_19</p>
<p>Vaish, K., Patra, S., & Chhabra, P. (2020). Functional disability among elderly: A community-based cross-sectional study. <i>Journal of family medicine and primary care</i>, 9(1), 253–258. https://doi.org/10.4103/jfmpe.jfmpe_728_19</p>
<p>Yadav K , Saini NK , Patra S, Avasthi R (2019). Prevalence of gastroesophageal reflux disease and its correlates in adults residing in a urban resettlement colony of East Delhi. <i>Journal of Comprehensive Health</i>, 7, (2) 44-49.</p>
<p>Khan, A. M., Gupta, P., & Mishra, D. (2019). The 3-Question Approach: A Simplified Framework for Selecting Study Designs. <i>Indian pediatrics</i>, 56(8), 669–672.</p>
<p>Ranganathan R, Amir Maroof K, Chhabra P. (2020). Antenatal care, care at birth, and breastfeeding during the Coronavirus (COVID-19) pandemic. <i>Indian J Community Health</i>, 32(1), 17 -20.</p>
<p>Khan, A. M., Gupta, P., Singh, N., Dhaliwal, U., & Singh, S. (2020). Evaluation of a faculty development workshop aimed at development and implementation of a competency-based curriculum for medical undergraduates. <i>Journal of family medicine and primary care</i>, 9(5), 2226–2231. https://doi.org/10.4103/jfmpe.jfmpe_17_20</p>
<p>Titoria R, Upadhyay M, Chaturvedi S. (Jan – March 2020). Quality of Routine Immunization Service: Perception of clients. <i>Indian J Public Health</i>, 64(1), 44-49.</p>
<p>Gupta U, Upadhyay MK, Sharma R. (2020). Socio-clinical profile of patients seeking treatment for cancer in a teaching hospital in east Delhi, India. <i>J Family Med Prim Care</i>, 9(6), 2763-2768</p>
<p>Sharma S, Upadhyay MK. (February 2020). Epidemiological profile of trauma victims attending a tertiary care hospital in Delhi and application of Haddon Matrix to identify risk factors of road traffic accidents. <i>Indian J Public Health Res Dev.</i>, 11(2), 856-861.</p>
<p>Pathak MK, Rohini, Rai S, Upadhyay MK. (2019). Social, Medical and Human Rights Issues Related to Transgenders in India. <i>J Punjab Acad Forensic Med & Toxic</i>, 19(1), 5 – 15</p>
<p>Dugg P, Cherian V, Upadhyay MK. (2019). Opportunistic screening for diabetes using Indian diabetes risk score among patients aged 30 years and above attending rural health training center in Delhi. <i>Int J of Med Sci Public Health</i>, 8(4), 264-269.</p>
<p>Gupta U, Upadhyay MK, Sharma R. (2019). Assessment of Health-related Quality of Life in cancer patients</p>

undergoing treatment using Health Utilities Index (HUI-3®) in east Delhi, India. Indian J Cancer (Accepted for publication).
Pathak MK, Rohini, Upadhyay MK. (2019). Verbal autopsy: An adjunct to medico-legal autopsy. Indian J Public Health Res Dev (Accepted for publication).

Research Projects

NAME	Funded by	Years	Title of the project
Chaturvedi S	WHO-SEARO, INCLN	2018-2020	Evaluation of National Immunisation Technical Advisory Groups (NITAG) in South East Asia.
Chaturvedi S	WHO-SEARO, INCLN	2016-2019	Evaluation of WHO Collaborating Centers in South East Asia Region

Seminars organized

Name of speaker	Designation and affiliation	Title of talk	Date
Dr AK Harit	Dte. General of Health Services, Nirman Bhawan, New Delhi (Retd.)	Experiences and lessons from first Nipah Virus Disease outbreak in India	08.01.2020

Conferences organized

NAME (In alphabetical order of last name)	Full name of the conference/CME and place	DATES (From-To) (Date-Month-Year)
Gupta, Anita	As National & International Trainer of IYCF /MAA: • Organised two training workshops on “Infant and Young Child Feeding Counselling & Lactation Management Specialist (The ‘4 in 1’ course)”, a certificate course, as Course Director under Department of Community Medicine, University College of Medical Sciences (UCMS) & GTB Hospital, in collaboration with Breastfeeding Promotion Network of India (BPNI) Delhi. Trainees were from pan India.	22 – 28 April 2019 & 16-22 December 2019
Gupta, Anita	Organized one day Symposium in department of community medicine on IYCF for ICDS Functionaries covering Topics like IYCF, IMS Act, Feeding during Emergency & BF Theme in collaboration with FNB, MOWCD, GOI.	6th Aug 2019

Number of Faculty 09

COMMUNITY MEDICINE (MAMC)

Major activities and achievements:

- Teaching of undergraduate and post graduate students
- Contribution towards National Healthcare delivery system by providing efficient medical services.
- Organising conferences, workshops, seminars in pursuance of objectives of Medical Education, for improving the course contents, continuing education and furtherance of development of research activities.
- Extending medical support to the local authorities for healthcare program.
- Extending healthcare facilities to the rural and urban populations of Delhi through its organised centres in the community.
- CENTRES: The Core Promoter of The Ideology “Health For All”-Comprehensive healthcare services are provided in rural and urban field practice areas attached to the Department of Community Medicine.

The department is actively involved in conducting research projects funded by various organizations. Many projects were successfully completed earlier including community based multicentric epidemiological study on dengue and HIV/AIDS; projects funded by ICMR, WHO, and many pharmaceutical companies. At present, the department is involved actively in many National and International projects funded by World Health Organization (WHO), Biotechnology Industry Research Assistance Council (BIRAC), ASTRA (Addressing Smokeless Tobacco Use and Building Research Capacity in South Asia; etc. Every year, more than five undergraduate students take up STS projects funded by ICMR. Also, some post graduate students get grant from ICMR for their thesis work.

The department also won the FLEMMING TROPHY in February 2020, for best research work in clinical department for the year 2019.

Honors/ Distinctions

Dr. Nandini Sharma

Delhi State Award for meritorious services in the field of health care in Delhi, 2019.

Dr. Suneela Garg

- Nominated as Professor of Excellence in Community Medicine.
- Nominated for Harcharan Singh Oration in annual IAPSM Conference in 2019 at IGMC ,Shimla
- Nominated as Task force Committee member for OMAG (Organized Medicine Academic Guild)
- Nominated as President elect for National Indian Association of Preventive and Social Medicine.
- Nominated as President for OMAG (Organized Medicine Academic Guild)- conglomeration of 21 professional associations.
- Jury member for Double Helical Awards.

Publications

Dr. Nandini Sharma

1. Basu S, Garg S, Sharma N, Singh M.M. Improving the assessment of medication adherence: challenges and considerations with a focus on low-resource settings. *Tzu Chi Medical Journal*. 2019; 31(2): 73–80.
2. Verma M, VishwanathK, EwejeF, RoxhedN, GrantT, Castaneda M, Steiger C, Mazdiyasi H, Bense T, Minahan D, Soares V, SalamaJ.A.F., Lopes A, Hess K, ClevelandC, Fulop D.J., Hayward A, CollinsJ, Tamang S.M., Hua T, Ikeanyi C, Zeidman G, Mule E, Boominathan S, Popova E, Miller J.B., Bellinger A.M., Collins, Leibowitz D, Batra S, AhujaS, Bajjiya M, SarinR, AgarwalU, Khaparde S.D., Gupta N.K., Deepak Gupta D, Bhatnagar A.K., ChopraK.K., Sharma N. A gastric resident drug delivery system for prolonged gram-level dosing of tuberculosis treatment. *Science Translational Medicine*. 2019;11(483): 62-67
3. Sharma N, Singla N, Khanna A, Basu S, Chopra K.K, Chandra S, Kohli C. Pattern and trends of drug sensitivity in MDR-TB cases in Delhi (2009-2014): A record based study. *Indian Journal of Tuberculosis IJTB*. 2019;66(2):222-226.
4. VankhumaC, Basu S, Sharma N, Kumar S. Tobacco use patterns and tobacco-related awareness in medical students of Delhi. *Clinical Epidemiology and Global Health*. doi.org/10.1016/j.cegh.2019.04.012
5. Basu S, GargS, Sharma N, Singh M.M., GargS, Asaria M. The determinants of out of pocket healthcare expenses for Diabetes Mellitus patients in India: an examination of a tertiary care government hospital in Delhi. *Perspectives in Clinical Research*. DOI: 10.4103/picr.PICR_169_18
6. Basu S, Garg S, Sharma N, Singh M.M. Enhancing medication adherence through improved patient-provider communication: The 6A's of intervention. *Journal of The Association of Physicians of India (JAPI)*. 2019;67:69-71
7. DhakedS, Sharma N, ChopraK.K., Khanna A. Barriers and Challenges in Seeking Healthcare by Pediatric Tuberculosis Patients Attending DOTS Centers in Urban Areas of Delhi. 2019;5(1):8-12
8. Sharma N, Khanna A, Chandra S, Mariam W, Basu S, Kumar P, Copra K.K., Babbar N. Partnership in Tuberculosis control through involvement of pharmacists in Delhi: An exploratory operational research study. *Indian Journal of Pharmacology*. 2019;51(3):168-172.
9. Basu S, Sharma N. Diabetes self - care in Primary health facilities in India - challenges and the way forward. *World journal of Diabetes*. 2019;10(6):341-349.
10. Paton N.I., Borand L, Benedicto J, Kyi M.M., Mahmud A.M., Norazmi M.N., Sharma N, Chuchottaworn C, Huang Y.W., Kaswandani N, Hoi L.V, Hoi L.V., Lui G.C., Mao T.E. Diagnosis and Management of Latent Tuberculosis Infection in Asia: Review of Current Status and Challenges. *International Journal of Infectious Diseases*. DOI:10.1016/j.ijid.2019.07.004

Dr. Suneela Garg

1. Mahmood F Bhutta, a Xingquan Bu, b Patricia Castellanos de Muñoz, c Suneela Garg d & Kelvin Konge: Training for hearing care providers *Bulletin of the World Health Organization* 2019;97:691-698.
2. Neha Dahiyia, Kavita Aggarwal, Megha Chandra Singh, Suneela Garg, Rajesh Kumar Knowledge, attitude, and practice regarding the screening of cervical cancer among women in New Delhi, India *Tzu Chi Journal* Year : 2019 September | Volume : 31 | Issue : 4 | Page : 240-243

3. Garg S, Singh MM, Hossain S, Arora I. Health and social implications of gender-based violence. *Paripex-Indian Journal of Research*. Volume-8 | Issue-6 | June-2019 | PRINT ISSN No. 2250 - 1991
4. Mangla V, Singh MM, Garg S, Koner BC, Anuradha S. Vitamin d deficiency and associated factors in type 2 diabetes mellitus patients in a tertiary care hospital in delhi: a cross sectional study. *International Journal of Scientific research*. 2019;8(3):53-55.
5. The Hindi Version of the Breastfeeding Self-Efficacy Scale-Short Form: Reliability and Validity Assessment, SauravBasu, SuneelaGarg, Akashdeep Sharma, Ekta Arora, M. Meghachandra Singh *Indian Journal of Community Medicine | Volume 45 | Issue 3 | July-September 2020*
6. Mariam W, Garg S, Singh MM, Koner BC, Anuradha S. Vitamin D status, determinants and relationship with biochemical profile in women with Type 2 Diabetes Mellitus in Delhi, India. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. 2019;13(2):1517-1521.
7. Basu S, Garg S, Sharma N, Singh MM. Enhancing Medication Adherence through Improved Patient-provider Communication: The 6A's of Intervention. *J Assoc Physicians India* 2019 Jul;67(7):69-71
8. Basu S, Garg S, Sharma N, Singh MM. Improving the assessment of medication adherence: Challenges and considerations with a focus on low-resource settings. *Tzu Chi Med J*. 2019 Apr-Jun;31(2):73-80.
9. . Dahiya N, Aggarwal K, Singh MC, Garg S, Kumar R. Knowledge, attitude and practices regarding the screening of cervical cancer among women in New Delhi, India. *Tzu Chi Med J*. 2019 Apr-Jun;31(4):240-3.
10. Basu S, Garg S, Singh MM, Kohli C. Knowledge and practices related to the use of personal audio devices and associated health risks among medical students in Delhi. *J Educ Health Promot* 2019 15;8:42. Epub 2019 Feb 15.
11. Dahiya N, Aggarwal K, Singh MC, Garg S, Kumar R. Knowledge, attitude and practices regarding the screening of cervical cancer among women in New Delhi, India. *Tzu Chi Med J*. 2019 Apr-Jun;31(4):240-3.
12. Basu S, Budh N, Garg S, Singh MM, Sharma A. Postpartum depression burden and associated factors in mothers of infants at an urban primary health center in Delhi, India. *Tzu Chi Med J* [Epub ahead of print] [cited 2020 Oct 7]
13. Letter to editor “Surakshit Matritva Aashwasan (SUMAN)” published in the current issue of *Advances in Medical Dental and Health Sciences*. Volume 2, Issue 4, Oct-Dec, 2019
14. Basu S, Mariam W, SahdevSantraGarg S. Re-exposure animal bite management among incident animal bite cases in a secondary care Hospital in Delhi, India *IJPH2020* : 64 :1;72-74
15. Garg S, Singh MM, RustagiRuchir, EngtipiKajok, BalaIndu. Magnitude of Domestic Violence and its Socio-Demographic Correlates among Pregnant Women in Delhi. *Journal of Family Medicine and Primary Care* 8(11):3634 · November 2019
16. Budh N, Arora E, Garg S, Zika Virus-An Emerging Threat. *Indian Journal of Communicable Diseases : IJCD_9726_2019*
17. Budh N, Arora E, Garg S, West Nile Fever- A Remerging Threat To Public Health . *Indian Journal of Communicable Diseases : IJCD_9722_2019*

18. Garg, Suneela&Basu, Saurav&Baswal, Dinesh & Mariam, Warisha&Rustagi, Ruchir. (2019). Training of health workers for Maternal Death Surveillance and Response program in India: knowledge assessment and analytical evaluation. *Journal of Midwifery & Reproductive Health*. 8. 10.22038/JMRH.2019.38320.1427.
19. Samar Hossain, DrSuneelaGarg, "The Launch of the Malaria Vaccine", *International Journal of Science and Research (IJSR)*, https://www.ijsr.net/search_index_results_paperid.php?id=ART20197745, Volume 8 Issue 5, May 2019, 527 – 528
20. Amit Bhavsar, Clarence C. Tam, SuneelaGarg, Guru Rajesh Jammy, Anne-Frieda Taurel, Sher-Ney Chong, Joshua Nealon Estimated dengue force of infection and burden of primary infections among Indian children , *BMC Public Health* 19, Article No 1116 (2019) PMID 31412836, *BMC Public Health* 19, Article No 1116 (2019)
21. Tobacco : An invisible threat for COVID 19 SuneelaGarg, ChetanaDeshmukh, *Indian Journal of Community Health INDIAN JOURNAL OF COMMUNITY HEALTH/ VOL 32/ NO 02 (SPECIAL ISSUE)/ APRIL2020*
22. Books published
 Developed module on Occupational Health programme : Care and compliance on unorganized sector worker's perspective for the Primary Health Care Professionals.(PHFI,WHO,ICMR,NIOH) – September-October 2019

Dr. M.M. Singh

1. Singh MM, Mangla V, Pangtey R, Garg S. Risk assessment of diabetes using the Indian Diabetes Risk Score: A study on young medical students from Northern India. *Indian J EndocrMetab* 2019;23:86-90.
2. Garg S, Singh MM, Hossain S, Arora I. Health and social implications of gender based violence. *Paripex-Indian Journal of Research*.2019;8(6): 204-206.
3. Mangla V, Singh MM, Garg S, Koner BC, Anuradha S. Vitamin d deficiency and associated factors in type 2 diabetes mellitus patients in a tertiary care hospital in delhi: a cross sectional study. *International Journal of Scientific research*. 2019;8(3):53-55.
4. Garg S, Mangla V, Kohli C, Singh MM, Chadha S, Dahiya N. A cross-sectional study on hearing loss using world health organization protocol in Delhi. *Indian J Otol* 2018;24:184-9.
5. Garg S, Kohli C, Mangla V, Chadha S, Singh MM, Dahiya N. An Epidemiological Study on Burden of Hearing Loss and Its Associated Factors in Delhi, India. *Ann OtolRhinolLaryngol*. 2018 Sep;127(9):614-619. doi: 10.1177/0003489418781968. Epub 2018 Jun 25.
6. Mariam W,Garg S, Singh MM, Koner BC, AnuradhaS.Vitamin D status, determinants and relationship with biochemical profile in women with Type 2 Diabetes Mellitus in Delhi, India. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*.2019;13(2):1517-1521.
7. Basu S, Garg S, Sharma N, Singh MM. Enhancing Medication Adherence through Improved Patient-provider Communication: The 6A's of Intervention.*JAssoc Physicians India* 2019 Jul;67(7):69-71
8. Basu S, Garg S, Sharma N, Singh MM. Improving the assessment of medication adherence: Challenges and considerations with a focus on low-resource settings. *Tzu Chi Med J*. 2019 Apr-Jun;31(2):73-80.
9. Basu S, Garg S, Singh MM, Kohli C. Knowledge and practices related to the use of personal audio devices and associated health risks among medical students in Delhi.

J Educ Health Promot 2019 15;8:42. Epub 2019 Feb 15.

10. Dahiya N, Aggarwal K, Singh MC, Garg S, Kumar R. Knowledge, attitude and practices regarding the screening of cervical cancer among women in New Delhi, India. *Tzu Chi Med J.* 2019 Apr-Jun;31(4):240-3.
11. Basu S, Budh N, Garg S, Singh MM, Sharma A. Postpartum depression burden and associated factors in mothers of infants at an urban primary health center in Delhi, India. *Tzu Chi Med J.* 0,0:0.

Dr. Bratati Banerjee

1. BasuMallick D, Dutt D, Banerjee B, Bhattacharjee A. Quality of life of oral and oropharyngeal cancer patients attending a tertiary care institute in Kolkata. *International Journal of Community Medicine and Public Health* 2020;7(1):243-249.
2. Pangtey R, Basu S, Meena GS, Banerjee B. Perceived Stress and its Epidemiological and Behavioral Correlates in an Urban Area of Delhi, India: A Community-Based Cross-Sectional Study. *Indian Journal of Psychological Medicine* · January 2020 DOI: 10.4103/IJPSYM.IJPSYM_528_18
3. Sharma N, Bhatnagar A, Basu S, Ashwani K, Chopra KK, Banerjee B, et al. A comparison of patient treatment pathways among multidrug-resistant and drug-sensitive TB cases in Delhi, India: A cross-sectional study. *Indian J Tuberculosis.* doi: 10.1016/j.ijtb.2020.07.020

Chapter in book

1. Banerjee B, Banerjee R. Health Policies and Programmes in India. In Kadri AM (ed): *IAPSM's Textbook of Community Medicine* New Delhi: Jaypee Brothers Medical Publishers (P) Ltd 2019:1068-1136.

Health education books for children

1. Banerjee B. *The Friendly Four Take Safety Pledge.* New Delhi (India): ShabdankurPrakashan; 2020
2. Banerjee B, Ingle GK. *Prevention of Injuries in Children and Adolescents.* New Delhi (India): ShabdankurPrakashan; 2020 (Hindi)

Dr. Rajesh Kumar

1. Garg P, Kumar R. Study of depression, anxiety and stress in Class-IV workers of a medical college of Delhi. *Indian J Soc Psychiatry* 2019; 35: 57-63.
2. Dahiya N, Kumar R, Meena GS, Goel P. Knowledge and practices regarding the prevention of tetanus among adults of resettlement colony of Delhi, India. *Indian J Med Spec* 2019;10:155-8.
3. Dahiya N, Aggarwal K, Singh MC, Garg S, Kumar R. Knowledge, attitude, and practice regarding the screening of cervical cancer among women in New Delhi, India. *Tzu Chi Med J* 2019;31:240-3.
4. Singh S, Dahiya N, Singh AB, Kumar R, Balhara YP. Gaming disorder among medical college students from India: Exploring the pattern and correlates. *Ind Psychiatry J* 2019;28:107-14.

Dr. Pragya Sharma

Articles Accepted (Online available)

1. Awareness and perspectives on expansion of latent TB management among public-sector physicians and medical trainees in Delhi, India. Sharma N, Basu S, Chopra KK, Sharma P. *Indian Journal of Tuberculosis.* 2020

2. Attitude towards mobile learning among resident doctors involved in undergraduate medical education at a government medical college in Delhi, India. J Educ Health Promot. Basu S, Marimuthu Y, Sharma N, Sharma P, Gangadharan N.
3. Unintentional injuries among Under-five children and its associated factors in Rural Delhi; A community-based cross-sectional analytical study. Indian Pediatr. Bhatia J, Singh MM, Marimuthu Y, Garg S, Sharma P, Rajesh K, et al.

Article accepted in press

1. Attitude towards mobile learning among resident doctors involved in undergraduate medical education at a government medical college in Delhi, India Basu S, Marimuthu Y, Sharma N, Sharma P, Gangadharan N, Santra S. Journal of Education and Health Promotion. 2020

Under Review

2. The application and positive perceptions regarding Mobile learning among medical students in Delhi, India. Marimuthu Y, Basu S, Sharma N, Sharma P, Gangadharan N, Sajwan A. Educ Heal.

Research Projects

List of completed projects

	A prospective study of magnitude of domestic violence in pregnancy, it's associated factors, related maternal health and birth outcomes in Delhi	PI: Dr.SuneelaGarg Co-PI: Dr M.M. Singh	Funded by ICMR, New Delhi)
	Risk Factors and Treatment seeking pathways among patients of Multi Drug resistant Tuberculosis	PI:Dr. Nandini Sharma	Funded by RNTCP.
	Building capacity to prevent Cyberbullying in India and the U.S.: A cross cultural collaboration	PI:Dr. Nandini Sharma	Ministry of Human Resources Development (MHRD)
	Prevalence of Vitamin D deficiency and insulin resistance among type II diabetes patients attending a tertiary hospital in Delhi.	PI: Dr.M.M.Singh, Co-Investigators: Dr.S.Anuradha, SuneelaGarg, Dr. BC Koner.	
	“Risk factors and treatment seeking pathways among patients of Multi Drug Resistant- 3 Tuberculosis”	Co PI- Dr.Bratati Banerjee	Funded by RNTCP

List of on-going projects:

S No.	Name of Project	PI/CoPI	Funding Agency
	Menstrual hygiene practices among Adolescent Girls in Rural and urban resettlement areas of Delhi.	PI: Dr SuneelaGarg, Co-PI: Dr. MM Singh, Dr NidhiBhatnagar,	Dir. H & Family Welfare, Govt of NCT Delhi)

		Dr.Amod L. Borle	
	Addressing Smokeless Tobacco and Building research Capacity in South Asia ASTRA	PI: Dr SuneelaGarg, Co-PI: Dr. MM Singh, Dr NidhiBhatnagar, Dr.Amod L Borle, Dr. Ravi Kaushik	National Institute of Health Research (NIHR) University of York
	Impact of Air Pollution on Public Health - An Observational Study	PI:Dr. Nandini Sharma	Funded by Delhi Pollution Control Committee (DPCC).
	Principal investigator for project “Latent TB Updates: Focus on Latent TB for TB Elimination in India- the Time is Now”	PI:Dr. Nandini Sharma	Approved for funding by RNTCP.
	ICMR funded community based intervention research project titled ‘Efficiency of Child-To-Child Approach in Preventing Childhood injuries and their Consequences’.	Dr.Bratati Banerjee	Indian Council of Medical research
	Awareness and skill development on self breast examination among reproductive age group women in the field practice area of Maulana Azad Medical College, New Delhi.	Dr.Shivani Rao Dr. MM Singh Dr.NidhiBudh	

Conferences Organized

Dr. Nandini Sharma

1. Organised CME on “Latent TB updates: focus on latent TB for TB elimination in India” on 3rd-4th October 2019 in MAMC
2. Core Committee Meeting of RNTCP on 6th Aug 2019 in Dept. of Community Medicine MAMC
3. Core Committee Meeting of RNTCP held on 20th Dec 2019 in Chest Clinic, LNJP.

Dr. SuneelaGarg:

1. Organized WHO workshop for Primary ear and hearing care in health promoting schools in SEAR region. (8-9th November 2019)
2. Pretested module on Occupational Health programme : Care and compliance on unorganized sector worker’s perspective for the Primary Health Care Professionals.(PHFI,WHO,ICMR,NIOH) (16th November 2019)
3. Pretested Development of modules for Elderly Care in collaboration with WHO, MoHFW GOI, MAMC
4. Organized one national workshop on elderly care in collaboration with NHSRC.
5. Facilitated: 1 Regional Workshop on MDSR in collaboration with MoHFW GOI & WHO
6. Co-organised “ Workshop of Breast Cancer Awareness for Doctors, Interns, SRs , PGs and Nurses

Dr. Amod Borle

1. Organized Poster competition on World Environment day in Collaboration with NCDC
2. World health Day Quiz of IAPSM at college level.

COMMUNITY MEDICINE (LHMC)

Major Activities and Achievements

Project on Health Accounting Scheme: Empowering people for health care through multi-sectoral coordination- An operational Evaluation with ICMR was completed in September 2019 and presented in ICMR on 18th Oct'19. The project was well appreciated and will be replicated in many states.

The Department organised the 4th International Conference of Occupational and Environmental Health (ICOEH) from 15-17th February 2019 held at Lady Hardinge Medical College, New Delhi. All faculty members and residents participated and provided their valuable contribution in all the scientific presentations and other events conducted during said the conference.

Honours/ Distinctions

- Best paper Award at 9th International Conference on Environmental Pollution and Remediation (ICEPR 2019) Aug 18-20 2019, Lisbon, Portugal was awarded to Dr. Shweta Arora, Dr. S.K. Rasanania and Dr. Risa for presenting paper titled 'Relationship of Air pollution and associated environmental determinants with acute respiratory infections among under five children at district level in Delhi using GIS mapping'.
- Best paper award for oral/poster presentation were awarded to Dr. Deepak Dhamnetiya, Dr. Shweta Arora, Dr. Archana Thakur, Dr. Shibajee Deburma, Dr. Mrigesh Kumar at 4th International Conference of Occupational and Environmental Health (ICOEH) held at Lady Hardinge Medical College, New Delhi from 15-17th February 2019.
- Project Proposal for the Ford Foundation research grant was approved for the year 2019-20 for the project 'Assessment of Cardiovascular and Stroke Risk using WHO/ISH risk prediction chart in people aged more than 40yrs in Palam area'. Investigator: Dr. Archana Thakur and co-investigators: Dr. SK Rasanania, Dr. Manish K. Goel, Dr. Arun Raj.

Publications

- Das, R., Das, P.N. (2019). An innovative 2-step Paper Writing Strategy Utilizing Modern Principles of Scientific Writing for Successful Outcomes *Ind Jour Nursing Sciences*, 4(2), 39-47.
- Dhamnetiya, D., Goel, M.K, Balraj Dhiman, B., Pathania O. (2019). Gall stone disease and its correlates among patients attending teaching hospital of North India, *Journal of Family Medicine* 8, (1), 189-193.
- Parashar, M., Ellawadi, D., Singh, M., Jiloha, R.C. (2019). Level of stress among schoolteachers of a school in South Delhi, India, *CHRISMED J Health Res*, DOI: 10.4103/cjhr.cjhr_85_18. Ahead of print.
- Arora, S., Rasanania, S.K., Bachani, D., Gandhi, Chhabra, S.K. (2019). Air pollution and environmental risk factors for altered lung function among adult women of an urban slum area of Delhi: A prevalence study. *Lung India*, 35, 193-198.

Journals

Dr. Manish K. Goel: Associate editor IJOYAH

Research Projects

- ICMR, Health Accounting Scheme: Empowering people for health care through multi-sectoral coordination- An operational Evaluation with ICMR Project completed and report presented in 18th Oct 2019. I/c: Dr. Anita S. Acharya, Co-Supervisors: Dr. S.K. Rasania, Dr. D. Bachani, Dr. Jyoti Khandekar, Dr. Anita S. Acharya
- STS project under ICMR, Non-adherence to Anti-hypertensive Treatment and its determinants among individual attending tertiary care hospital New Delhi, Ms. Shalini- Project I/c: Dr. Manish K. Goel
- Ford foundation grant of Rs: 10,000/- awarded by IAPSM for project entitled

Seminar / Workshops Organized: (Total numbers- 10)

- R Das. Workshop on Ayushman Bharat: Arogya Manthan. 30th September 2019 held at Vigyan Bhawan, New Delhi. Organized by National Health Authority & MoHFW.
- Workshop on Pradhan Mantri 's Overarching Schemes for Holistic Nutrition (POSHAN) held on 1st Oct 2019 at Community Medicine Department, LHMC.
- Dr. Nazish Rasheed acted as the faculty moderator in Medicus Conventus 2019-held at Lady Hardinge Medical College, New Delhi from March 30, 2019 to March 31, 2019. Dr. Anita S. Acharya and Dr. Ananya organized a workshop on Diet Dialogue and Skills as part of Pre-conference workshop on 29th March 2019.
- The Department organised the Delhi chapter of IAPSM quiz for Medical students in LHMC on 8th April 2019.

Conference Organized

- The department organised the 4th International Conference of Occupational and Environmental Health (ICOEH) from 15-17th February 2019 held at Lady Hardinge Medical College, New Delhi.

Other Inter-Institutional Collaboration

- Collaborating for Post graduate Diploma in Maternal and Child Health with Indira Gandhi National Open University (IGNOU)
- Collaborating with the other departments for training Pre Hospital Trauma technicians.

Extension and outreach activities

- Organised a Swachhta Pakhwara at UHC Kalyanpuri under the Dept. of Community Medicine from 1st- 15th April 2019. Various activities such as Swachhta rally in the nearby community, poster competition, Health talks and role plays were conducted during the above period.
- Community Medicine Unit, Kalawati Saran Children Hospital: The department provides the following Promotive and Preventive Health Services to the children attending Child Health Promotion Clinic (CHPC).

- Counseling for immunization
- Growth monitoring&Nutritional Counseling
- Health education sessions
- Counseling for family welfare
- Screening and Counseling for accompanying Adults with regard to Non Communicable Diseases.

Faculty strength: 11

DENTAL & ORAL MAXILLOFACIAL SURGERY (LHMC)

Major Activities and Achievements

- Dr. P. Mehra was appointed Visiting Consultant for President's Estate Clinic.
- Dr. Pravesh Mehra undertook an Oral Health talk for DGHS personnel on the occasion of Doctor's Day and felicitated by Dr. Vekatesh, Dir. General, DGHS.
- Oral health awareness camps in Palam and Kalyanpuri for routine Dental and Oral Health Checkup.
- Dr. P. Mehra, Dr. Rakesh Sharma and Dr. Karthickeyan S S were appointed by the Ministry of Health & Family Welfare, Govt. of India, as member hearing Committee for various Dental Colleges & Hospitals in India.
- Dr. P. Mehra was recognized as a teacher by Delhi University & Co-Supervisor for thesis work, for the Dept. of Dermatology.
- Dr. P. Mehra was recognized as a teacher by Delhi University & Co-Supervisor for thesis work, for the Dept. of Radiology
- Dr. P. Mehra was appointed Faculty and resource person for the Medical Education Dept., at LHMC.
- Dr. Amarjeet Gambhir won 1st & 2nd prizes in table tennis tournament (singles & double category respectively) of sports Arena-2018 held at LHMC, New Delhi.
- The Department organized a camp for diagnosis and screening for Oral cancer and other dental & oral diseases at I.I.T.F. Pragati Maidan in Nov.2019. A certificate of appreciation was issued by the Government of India in this regard.
- The department has performed innovative surgeries in the field of jaw deformities, obstructive sleep apnoea and distraction osteogenesis of the maxilla and the mandible
- World No Tobacco Day was celebrated in a unique manner at the Dept. of Dental and Oral Surgery, Lady Hardinge Medical College and Hospital in association with the IDA West Delhi branch on 31st May 2019.

Publication

- Karthickeyan S.S. "Dentoskeletal morphology in Class I and Class II malocclusion with increased

overbite”- letter to the editor. Am J orthod Dentofacial orthop. 2019; 156(6): 710-711.

- Gambhir A- Full-mouth rehabilitation of a patient with bruxism using hobo’s twin-tables technique- A case report. Glob Acad J Dent oral Health 2019; 1(1):4-6.
- Gambhir A- prosthetic rehabilitation of maxillary anterior region using implant supported restoration- A case report. J Dent Res Rep 2019; 2:1-3.

Research Projects

- Dr. P. Mehra and Dr. Amarjeet Gambhir. Pit & Fissure Sealant GoI. MoHFW, Govt of India. Rs. 1.7 lakh

Post Graduate thesis

- Dr. Samridhi Maheshwari. “Comparison of the effect of Add-on intra-articular autologous platelet rich plasma to conservative measures in the treatment of temporomandibular dysfunction: A prospective study” Supervisor Dr P. Mehra.
- Dr. Neelam Yadav. ““A prospective study to compare the effect of with or without low Intensity pulsed ultrasound (IpuS) therapy on healing of mandibular fractures followingits closed reductiontreatment”” Supervisor Dr P. Mehra.

Conferences Organized

S. No.	Faculty Member	Organizers	Name, Venue & Date
1.	Dr. P. Mehra Dr. Karthickeyan S.S Dr. Rakesh Sharma Dr. Amarjeet Gambhir	Organized by Dept. of dental and oral surgery, LHMC & IDA West Delhi	Oral Potentially Malignant Lesion and Risk factors potpourri of lesions on January 2019 at MEU hall, LHMC. New. Delhi
2.	Dr. P. Mehra Dr. Karthickeyan S.S Dr. Rakesh Sharma Dr. Amarjeet Gambhir	Organized by Dept. of Dental & Oral Surgery LHMC, New Delhi	CDE program ‘Step by Step Approach of RCT’ by Dr. Vivek Hegde on 17 th August 2019
3.	Dr. P. Mehra Dr. Karthickeyan S.S Dr. Rakesh Sharma Dr. Amarjeet Gambhir	Organized by Dept. of Dental & Oral Surgery LHMC, New Delhi	CDE program ‘Healthy Mouth for Healthy Heart’ on 29 th September 2019, as part of celebration of WORLD HEART DAY.
4.	Dr. P. Mehra Dr. Karthickeyan S.S Dr. Rakesh Sharma Dr. Amarjeet Gambhir	Organized by Dept. of Dental & Oral Surgery LHMC, New Delhi	Cadaver dissection workshop on Radial forearm flap in collaboration with Dr. Shruti Patel, Assoc. Prof. Plastic Surgery, LHMC ON 11 th SEP, 2019.

Extension and Outreach Activities

The department has satellite clinics at Palam and Kalyanpuri, Delhi. Oral health awareness programs and tobacco cessation programs are being regularly conducted for the benefit of public and patients at large in Palam and Kalyanpuri for routine Dental and Oral Health Checkup.

Faculty Strength

Director Professor :2

Professor: 1

Associate Professor: 1

DERMATOLOGY & STD (LHMC)

Major Activities and Achievements

The Department started Dermatology OPD at Community Health Center, Kalyanpuri in April, 2019. The Department also expanded Dermatosurgery facilities by starting the laser services. Carbon Dioxide laser 40 watt (Acupulse Duo, Lumenis) was installed in the month of July 2019 and the first demonstration was taken on 20th August 2019. Nd:YAG laser (Q-switched) (Beijing Honkon Technologies Co. Ltd.) was installed in the Department in the month of December 2019 and the first demonstration was taken on 27th December 2019. Diode laser (Beijing Honkon Technologies Co. Ltd.) was installed in the Department in the month of February, 2020.

Honors/Distinctions

1. Dr. Priyal Rhenjen Garbyal (Post graduate) received Prof. B.N. Banerjee Medal for Best Original research paper in DERMACON International 2019, INDIA.
2. Dr. Priyal Rhenjen Garbyal (Post graduate) received 3rd prize at First annual meeting of Asian society of Dermatopathology, Delhi, 17 Nov.
3. Dr Rubina Jassi (Senior resident) received First prize in poster presentation on topic ' Dermoscopy of follicular papular' at the Annual Cuticon, IADVL-DSB, December 2019.
4. Dr Apoorva Maheshwari and Dr Jyoti Yadav (Post graduates) were finalist in post graduate quiz in Annual Cuticon, December 2019.
5. Dr Jyoti Yadav and Dr Kashish Tyagi (Post graduates) were finalist in post-graduate quiz, DAAS Summit 2019
6. Dr Jyoti Yadav (Post graduate) bagged first prize in post graduate quiz in Cutaneous TB CME at MAMC, New Delhi.

Publications

1. Aggarwal K, Chikkara A, Garg T.(2019) Subcutaneous Basidiobolomycosis in an immunocompetent child. J Clin Diagn Res .13(2): 01-02.
2. Garg T, Malik M, Jassi R, Chander R, Agarwal S.(2020) Atypical Vascular Lesions: Postmastectomy Postradiation. Skinmed.18(1):58-60.
3. Garg T, Ahmed R, Basu S, Chander R.(2019) Clinical spectrum of dermatological disorders in children referred from pediatrics department. Indian J Paediatr Dermatol. 20(3):212.
4. Garg T, Yadav A, Chander R, Nangia A.(2019) Pemphigus Herpetiformis Masquerading as Tinea Corporis. Indian Dermatol Online J.10(6):727-9.
5. Jassi R, Yadav A, Chander R.(2020) Dermoscopy of lichen scrofulosorum. Indian Dermatol Online J.11:876-7.

6. Mendiratta V, Rana S, Jassi R, Chander R.(2019). Study of Causative Factors and Clinical Patterns of Periorbital Pigmentation. *Indian Dermatol Online J.*10(3):293–5.
7. Mendiratta V, Sanke S, Chander R.(2019) Lichen Planus Pigmentosus: A Clinico-etiological Study. *Indian Dermatol Online J.*10(3):288–92.
8. Mendiratta V, Yadav A, Pagnti R, Chander R.(2019) An Interesting Coexistence of Multifocal Hypertrichosis and Hirsutism in Hypomelanosis of Ito. *Indian Dermatol Online J.*10(3):316–8.
9. Mendiratta V, Agarwal S, Chander R.(2019) Neonatal Lupus Erythematosus: Varied Clinical Expression of a Spectral Disease. *Skinmed.*17(1):76–8.
10. Mendiratta V, Yadav A.(2019) Neonatal Lupus with Extensive Cutaneous Involvement. *Indian Pediatr.*56(8):701–2.
11. Mendiratta V, Yadav A.(2019) Total Anonychia, Spastic Diplegia, and Mental Retardation in an Indian Boy: A Novel Syndrome? *Indian J Dermatol.*64(6):504–5.
12. Sanke S, Chander R, Mehra S.(2019) Intralesional Radiofrequency for Papular Acne Scars. *Indian Dermatol Online J.*10(4):486–7.
13. Sanke S, Garg T, Jassi R, Maheshwari A.(2019) Nail-Patella Syndrome: A Classic Case. *Dermatol Pract Concept.*9(4):271.
14. Singal A, Bisherwal K.(2020) Melanonychia: Etiology, Diagnosis, and Treatment. *Indian Dermatology Online Journal.* 11(1):1.
15. Sonthalia S, Jakhar D, Yadav P, Kaur I. (2019) Chemical peeling as an innovative treatment alternative to oral antifungals for onychomycosis in special circumstances. *Skin appendage disorders.*5(3):181-5.
16. Yadav A, Yadav P, Chander R.(2019) A Dermatologist’s Visit to the Community: An Intriguing Perspective. *Indian Dermatol Online J.*10(6):717–8.
17. Yadav A, Yadav P, Yadav J, Chander R.(2020) Tattoo for camouflage: A new cause of tattoo regret. *Indian Dermatol Online J.*11:250-2
18. Yadav P, Yadav A, Dalal K, Chander R.(2019) Concurrent Presentation of Systemic Lupus Erythematosus in Mother and Daughter. *Indian Dermatol Online J.*10(6):707–9.

Books / Chapters contributed

1. Garg T, Sanke S.(2019) Nail in children: Congenital and hereditary diseases. In: Singal A, Neema S, Kumar P, editors. *Nail disorders: a comprehensive approach*. New York, NY: CRC Press/Taylor & Francis Group; 2019.
2. Mendiratta V, Sanke S. Lichen planus. (2020) In: Hoeger PH, Kinsler V, Yan AC, editors. *Harper’s textbook of pediatric dermatology*. Fourth edition. Hoboken, NJ: Wiley-Blackwell.
3. Sethi P, Bansal A, Kumar A, Sanke S.(2019) *Step by step hair transplantation*. 1st ed. New Delhi: Jaypee Brothers medical publisher.
4. Sanke S, Garg T. (2020) *Leprosy in children*. CBS publishers.

Journals

Editor/ Member of Editorial board

1. Dr Vibhu Mendiratta is one of member of Editorial Board in Pediatric Dermatology.
2. Dr Vibhu Mendiratta is reviewer of Indian Dermatology Online Journal and Indian Journal of Sexually Transmitted Disease and AIDS.
3. Dr Taru Garg is reviewer of Indian Journal of Dermatology and Indian Journal of Sexually Transmitted Disease and AIDS.

Research Projects

Non funded Project with IEC Approval Taken

Name of Investigators	Project Incharge	Title of the Project scheme
Dr Taru Garg Dr Sucheta Sharma Dr Praveen Kumar (Dept.of pediatrics) Dr Ram Chander	Dr. Taru Garg	Cutaneous manifestations in celiac disease: An observational study

Seminars / Conferences Organized

S.No	Faculty Member	Organiser(s)	Name, Venue & Date
1.	Dr. Ram Chander Dr. Vibhu Mendiratta Dr. Taru Garg Dr Pravesh Yadav Dr Kavita Bisherwal Dr. Sarita Sanke	IADV-L-DSB	Monthly Clinical Meet of IADV-L held in LHMC on 19 th October 2019

Seminars/ Conferences Presentations (International)

S.No	Name & Designation of the Participant	Role/Topic	Organiser	Name of the Conference & Date
INTERNATIONAL CONFERENCE				
1.	Dr Sarita Sanke	Poster presentation: 1) Serum vitamin D levels in premature androgenetic alopecia 2) Premature androgenetic alopecia in men: phenotypic equivalent of PCOS	International League of Dermatological societies	World Congress of Dermatology, June 2019

Faculty strength: 6

Director Professor 2

Professor 1

Assistant Professor: (Contract) 3

DERMATOLOGY (MAMC)

Major activities and achievements

A CME on 'Cutaneous Tuberculosis- A Multidisciplinary Approach' was organized in the Department along with the Department of Chest TB (LNH) on 28th July 2019 with Eminent Faculty and Experts in TB from all over Delhi. The department also conducted the National Board Examinations in 2019. The Regional STI Reference, Research and Training Centre MAMC, Department of Dermatology organized a CME on 18th March 2019.

Our 4 special clinics: Connective Tissue Disease Clinic, Vesicobullous Clinic, Contact Dermatitis clinic and Psoriasis clinic are functioning successfully and the number of patients being catered to has increased to more than 80-100 per clinic.

Two PG seats in the department were recognized by MCI in 2019 and a proposal for the increment of the posts of senior residents and teaching faculty has been submitted.

The residents have received several awards and accolades during this period- Dr. Anuva Bansal (SR) received the MGM Medical College Prize for the best paper presented at DERMACON INTERNATIONAL 2019; Dr Pallavi Hegde received the Second prize in the Award Paper Category in The Annual Cuticon (DSB) in November, 2019; Dr. Monalisa and Dr. Pallavi (Ex Students 2017-20) won the second prize in the state level (Delhi) IADVL GSK National PG Quiz 2019-2020

Honors/Distinctions

Dr. Bijaylaxmi Sahoo

1. Member of the National Academy at Medical Sciences
2. Member of the Expert Committee- Tuberculosis

Dr Rashmi Sarkar

1. Awarded the prestigious Dr. B. M. Ambady oration from IADVL at DERMACON International 2019 in Bengaluru.
2. Awarded the Dr. Madhusudhan Das oration from Nalanda Medical College, Patna in 2019.
3. Awarded the IADVL Delhi State Branch oration on Atopic Dermatitis in Children 2019 at Annual Cuticon Delhi.
4. Awarded 'The Economics Times' 'Most Inspiring Dermatologist' at Doctor's Day Conclave in June 2019 at hotel Hyatt Regency, New Delhi.
5. Became the Chair, International Mentorship Committee, International Society of Dermatology from 2019-21.
6. Invited to be an International Editorial Board member of JAAD International.
7. Chair, International Liaison committee of IADVL for 2019.

Dr. Krishna Deb Barman

1. Received the IADVL Milan scholarship award

Dr. Vineet Relhan

1. Received the Dr. K.C. Kandhari Award at the Annual Cuticon IADVL Delhi State Branch 2019.
2. Received an award as Organizing Secretary ACSICON.

Residents

1. Dr. Anuva Bansal (Senior Resident) received the MGM Medical College Prize for the best paper presented at DERMACON INTERNATIONAL 2019 during the award papers session
2. Dr. Pallavi Hegde received the Second prize in the Award Paper Category in The Annual Cuticon (DSB) in November, 2019.
3. Dr. Monalisa and Dr. Pallavi won the second prize in the state level (Delhi) IADVL GSK National PG Quiz 2019-2020.

Publications

1. Bansal A, Relhan V, Garg VK, Saran RK. 2019. A cross-sectional study of the histopathology and immunology of alopecia areata: Unearthing the role of the Janus kinase-signal transducer and activator of transcription pathway. *Indian J Dermatol Venereol Leprol*;85(5):455-461.
2. Bhatia V, Arora P, Relhan V, Kaul U. Malignant restenosis and progression of disease in psoriatic patients undergoing coronary interventions: Is it the koebner's phenomena to blame? *Heart Res Open J*. 2019; 6(1): 15-17.
3. Ghunawat S, Relhan V, Garg VK. Hypersensitivity reactions To metal implants: clinical, diagnostic and treatment overview. *JDA Indian Journal of Clinical Dermatology*. 2019;2:29-34.
4. Grover, C., Gupta, S., Relhan, V., & Gupta, R. P. (2019). 17th National Conference of Association of Cutaneous Surgeons (I) (ACSICON 2019)--Conference Report. *Journal of cutaneous and aesthetic surgery*, 13(1), 46-49. https://doi.org/10.4103/JCAS.JCAS_91_19
5. Gupta S, Relhan V, Garg VK, Sahoo B. Autologous noncultured melanocyte-keratinocyte transplantation in stable vitiligo: A randomized comparative study of recipient site preparation by two techniques. *Indian J Dermatol Venereol Leprol*. 2019 Jan-Feb;85(1):32-38.
6. Mushtaq S, Sarkar R. Sulfasalazine in dermatology: A lesser explored drug with broad therapeutic potential. *Int J Womens Dermatol*. 2020 Feb 13;6(3):191-198.
7. Narayan V, Sarkar R, Barman KD, Prakash SK. Clinicoepidemiologic Profile and the Cutaneous and Nasal Colonization with Methicillin-Resistant *Staphylococcus aureus* in Children with Atopic Dermatitis from North India. *Indian Dermatol Online J*. 2019 Jul-Aug;10(4):406-412.

8. Relhan V, Choubey V. Infections and Infestations of the Nail Unit. In: Singal A, Neema S, Kumar P. Nail Disorders: A Comprehensive Approach. 1st ed. New York: CRC Press / Taylor & Francis Group; 2019. p 257-270
9. Sarkar R, Ghunawat S, Garg VK. Comparative Study of 35% Glycolic Acid, 20% Salicylic-10% Mandelic Acid, and Phytic Acid Combination Peels in the Treatment of Active Acne and Postacne Pigmentation. *J Cutan Aesthet Surg.* 2019 Jul-Sep;12(3):158-163.
10. Sarkar R, Jagadeesan S, Basavapura Madegowda S, Verma S, Hassan I, Bhat Y, Minni K, Jha A, Das A, Jain G, Arya L, Mandlewala Z, Bagadia J, Garg V. Clinical and epidemiologic features of melasma: a multicentric cross-sectional study from India. *Int J Dermatol.* 2019 Nov;58(11):1305-1310.
11. Sarkar R, Ghunawat S, Narang I, Verma S, Garg VK, Dua R. Role of broad-spectrum sunscreen alone in the improvement of melasma area severity index (MASI) and Melasma Quality of Life Index in melasma. *J Cosmet Dermatol.* 2019 Aug;18(4):1066-1073.
12. Sarkar R, Roberts WE (editors). *Chemical peels: a global perspective.* Jaypee Brothers Publications Limited; First Edition, 2019: New Delhi, India.
13. Sarkar R, Sinha S (editors). *The Sensitive Skin: Treatment and Cosmeceuticals.* Jaypee Brothers Publications Limited; First Edition, 2019: New Delhi, India.
14. Sarkar R, Sinha S (editors) *World Clinics in Dermatology: Topical Antifungals.* Jaypee Brothers Publications Limited; First Edition, 2019: New Delhi, India.

Conferences Organized

1. A CME on 'Cutaneous Tuberculosis- A Multidisciplinary Approach' was organized in the Department of Dermatology along with the Department of Chest TB (LNH) on 28th July 2019, with Dr. Bijaylaxmi Sahoo as the Organizing and Scientific Chairperson; Chief Guest – Dr. Sanjay Tyagi, Dean, MAMC; Guest of Honour- Dr. Kishore Singh, Medical Director, Lok Nayak Hospital; Special Guest- Dr. V. N. Sehgal, Former Principal, LHMC, Former Director Professor & Head, Dermatology, MAMC and Special Guest- Dr. Ashwani Khanna, State Tuberculosis Officer.
2. Regional STI Reference, Research and Training Centre MAMC, Department of Dermatology organized a CME Program for Post Graduate Medical Students on 18th March 2019.

Faculty Strength

Director Professor: 1
 Professor : 2
 Assistant Professor: 1

DERMATOLOGY & STD (UCMS)

Major Activities and Achievements

All faculty have done exceptionally well in their chosen fields. Department of Dermatology, UCMS is being recognized as a center for excellence in the area of Nail Disorders. Dr Archana Singal and Dr Chander Grover are founder President and founder Secretary of Nail society of India (NSI) since 2012. Both are regularly invited as international faculty for the sessions on Nail Disorders. In addition, Dr

Archana Singal is well known for her work in Tropical dermatology. Faculty are holding many significant positions in IADVL and many other National societies. Dr Deepika Pandhi has been nominated as Chairman of IADVL Academy. The department has many good quality publications; both reports and original studies in the national and international journal of high repute.

Dr Archana Singal has been appointed as adjunct professor at KMC, Manipal.

Post graduate residents (Dr Vishal Gaurav and Dr Arzoo Mishra) secured 1st position in national NSI quiz in Nov 2019. Dr Bhawuk won best paper award in DAAS Summit 2019 and was awarded Travel fellowship to attend EADV (European Congress of dermatology and Venereology) in 2019.

Honours/Distinctions

NAME	AWARD	DATE RECEIVED
Dr Archana Singal	World Congress of Dermatology 'Faculty Scholarship' 2019 to attend 24 th World Congress of Dermatology, 10-15 th June, 2019 as Invited speaker and Chairperson at Milan, Italy	June 2019
Dr Archana Singal	Faculty Scholarship for British Hair and Nail Society (BHNS) Meeting, held in Cheltenham, UK	Sept 2019.
Dr Chander Grover	"Young Cutaneous Surgeon Award"-2019 by the Association of Cutaneous Surgeons (I) for contribution to the field of cutaneous Surgery	20 th April, 2019 at New Delhi
Dr Chander Grover	World Congress of Dermatology 'Travel Scholarship' 2019 to attend 24 th World Congress of Dermatology, 10-15 th June, 2019 as Invited Chairperson at Milan, Italy	June, 2019

Other Distinctions

Dr Archana Singal	<p>International</p> <ol style="list-style-type: none"> 1. Co-Chairperson for the session "Parasitic Infections Affecting the Skin' during the proceedings of 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy. 2. Invited faculty for, 'Parasitic infestations of the nail not to be missed' in the session on 'Nail Update' during 24th World Congress of Dermatology held during 10-15 June 2019, Milan 3. Invited speaker on 'Cutaneous tuberculosis and HIV infection' in the session, 'Mycobacterial infections in the Biologic Era 'during 24th World Congress of Dermatology held during 10-15 June 2019, Milan 4. Invited speaker on Cutaneous Leishmaniasis: clinical presentation and management in the session Parasitic Infections Affecting the Skin during 24th World Congress of Dermatology held during 10-15 June 2019, Milan 5. Presented E-poster titled "Tinea Pseudoimbricata As A Unique Manifestation of Steroid Abuse: A Case Series from A Tertiary Care Hospital in India" in 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy. 6. Invited speaker on, 'Onychomycosis' in the British Hair and Nail Society (BHNS) Meeting, held in Cheltenham, UK on 18th Sept 2019. 7. Invited speaker on, 'Nail Manifestations in Psoriasis' in the British Hair and Nail Society (BHNS) Meeting, held in Cheltenham, UK on 18th Sept 2019.
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	<p>8. Invited Faculty for “Infections of the Nail Unit’ Invited speaker on, for the EADV Masterclass held on 10th Nov, 2019 in Taj Landends Mumbai Maharashtra.</p> <p>9. Invited speaker for the session, ‘Surgical Management of Nail tumors’ during 8th DASIL World Congress 2019 held in Goa, I</p>
Dr Deepika Pandhi	<p>1. Invited Faculty for the session “New cutaneous infections and infestations” during the proceedings 11thSouth Asian Regional Association of Dermatologists, (SARCD 2019) at Pokhara, Nepal from 15th to 17th November 2019.</p>
	<p>2. Invited Faculty for the session “Trichoscopy in infections and infestations” during the proceedings 11thSouth Asian Regional Association of Dermatologists, (SARCD 2019) at Pokhara, Nepal from 15th to 17th November 2019.</p>
	<p>3. Invited Faculty and Course Director for “Research Methodology Workshop” (Conference Workshop) during, ACSICON 2019 (17th National Conference of Association of Cutaneous Surgeons (I), on 19th April at Hotel Leela Ambience, Gurugram. Spoke on “Research- Why should I do it?” during the workshop.</p>
	<p>4. Invited Faculty and Course Director for “Research Methodology Workshop” (Conference Workshop) during, ACSICON 2019 (17th National Conference of Association of Cutaneous Surgeons (I), on 19th April at Hotel Leela Ambience, Gurugram. Spoke on “Ethics of research during the workshop.</p>
	<p>5. Invited Faculty as Panelist for panel discussion on “Topical management of atopic dermatitis” during the proceedings of MIDCUTICON organized by IADVL Delhi state branch on 2nd June, 2019 at Delhi.</p>
	<p>6. Invited Faculty as Panelist for panel discussion on “Changing trends in classical STDs” during the proceedings of 6th Dermatology and Allied Specialties Summit organized from 5th- 7thJuly, 2019 at Hotel Eros, Delhi.</p>
	<p>7. Invited Faculty as Panelist for panel discussion on “Childhood Leprosy” during the proceedings of PedDerm-Con 2019:National conference of pediatric dermatology from July 27-28 at Hyderabad.</p>
	<p>8. Invited Faculty as Moderator for panel discussion on “Connective tissue diseases-practical issues in diagnosis and management” during the proceedings of PedDerm-Con 2019:National conference of pediatric dermatology from July 27-28 at Hyderabad.</p>
	<p>9. Invited speaker for “Hormonal therapy of Acne” during the proceedings of MIDDERMACON 2019: Mid-term National Conference of IADVL, organized from 23rd -25th August, 2019 at Patna, Bihar.</p>
	<p>10. Invited panelist for panel discussion on “Interesting cases of Acne” during the proceedings of MIDDERMACON 2019: Mid-term National Conference of IADVL, organized from 23rd -25th August, 2019 at Patna, Bihar.</p>
Dr Chander Grover	<p>International</p> <p>1. Invited Co-Chairperson for the session “Nail surgery: State of the art” during the proceedings of 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy.</p>

	<ol style="list-style-type: none"> 2. Invited Faculty for the session “Nail biopsy: when and how” during the proceedings of 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy. 3. Invited Faculty for “Nail fold capillaroscopy: utility for dermatologists” during the IADVL Sister Society Session preceding the 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy. 4. Invited Oral presentation on “Efficacy and tolerability of nail bed methotrexate injections in isolated nail psoriasis: conventional drug via an unconventional route” during the session “Hair and Nail- II” during the proceedings of 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy. 5. Presented E-poster titled “Computer assisted Objective Structured Clinical Examination (CA-OSCE) versus Objective Structured Clinical Examination (OSCE) in assessment of Dermatology undergraduate students” during the proceedings of 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy. 6. Presented E-poster titled “Intra-individual Right-left Comparative Study of Medium Depth Peels in Superficial Nail Abnormalities” during the proceedings of 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy. 7. Presented E-poster titled “Clinical and serological characteristics of nail psoriasis in Indian patients: A cross-sectional study” during the proceedings of 24th World Congress of Dermatology 2019, 10-15th June, 2019 at Milan, Italy. 8. Invited Faculty for “Nail Iichen Planus” during the proceedings of European Academy of Dermatology and Venereology “Nails Masterclass”, organized on the 10th of November, 2019 at Hotel Taj Lands end, Mumbai, Maharashtra. <p>National</p> <ol style="list-style-type: none"> 1. Invited Faculty and Course Director for “Live observational Workshop on Nail Surgery” (Pre-Conference Workshop) during, ACSICON 2019 (17th National Conference of Association of Cutaneous Surgeons (I), on 18th April 2019 at AIIMS, Delhi. 2. Invited Faculty and Course Director for “Video based educational workshop on Nail Surgery” (Conference Workshop) during ACSICON 2019 (17th National Conference of Association of Cutaneous Surgeons (I), 19th April 2018 at Hotel Leela Ambience, Gurugram. Spoke on “Vascular tumors” during the workshop. 3. Invited Faculty as Moderator for panel discussion on “Nail Surgery” during the proceedings of ACSICON 2019 (17th National Conference of Association of Cutaneous Surgeons (I), 201-21st April 2019 at Hotel Leela Ambience, Gurugram. 4. Invited Faculty for “What’s new in investigative dermatology” during the proceedings of Mid-year CUTICON organized by IADVL-Delhi State Branch on 2nd June, 2019 at Hyatt Regency, Delhi. 5. Invited Faculty for recording Omnicuris lecture on “Current concepts in the treatment of Psoriasis.” By IADVL in June, 2019 6. Invited Faculty as Moderator for panel discussion on “Vitiligo Surgery” during the proceedings of Global vitiligo Day CME organized by IADVL-DSB and SIG-Pigmentary Disorders on 25th June, 2019 at Hotel Holiday Inn, Mayur Vihar. 7. Invited Faculty as Panelist for panel discussion on “Difficult to treat Lichen planus” during the proceedings of 6th Dermatology and Allied Specialties Summit organized by from 5th- 7th July, 2019 at Hotel Eros, Delhi.
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Publications

Dr. Archana Singal (Publications in indexed journals)

1. Kayarkatte MN, Singal A, Pandhi D. Impact of Onychomycosis on the Quality of Life: Dermatology Life Quality Index-Based Cross-Sectional Study. *Skin Appendage Disord.* 2020 Mar;6(2):115-119. doi: 10.1159/000504944
2. Singal A, Bisherwal K. Melanonychia; etiology, diagnosis and treatment. *Indian Dermatol Online J.* 2020 Jan-Feb; 11(1): 1–11.
3. Singal A, Kaur I. Radiofrequency (RF) Ablation for Nail Matricectomy in the Management of Ingrown Toe Nail; A Pilot Study. *J Cutan Aesthet Surg.* 2019 ;9(2):122-5.
4. Gupta S, Shankar Jangra R, Singal A, Singla R. Innovative protective covering over finger nail surgery dressing. *J Am Acad Dermatol.* 2020 Feb;82(2):e45-e46. doi: 10.1016/j.jaad.2019.01.018.
5. Kayarkatte MN, Singal A, Pandhi D, Das S. Clinico-mycological study of onychomycosis in a tertiary care hospital-A cross-sectional study. *Mycoses.* 2020 Jan;63(1):113-118. doi: 10.1111/myc.13025.
6. Singal A, Bhatt S. Venolymphatic malformation of the tongue and response to sclerotherapy using sodium tetracycl sulphate (STS). *J Cutan Aesthet Surg.* 2019 ;9:122-5.
7. Kaur A, Jakhar D, Singal A. Dermoscopy in the evaluation of Pityriasis Versicolor; A cross sectional study. *Indian Dermatol Online J.* 2019; 10: 682-5.
8. Jangra RS, Gupta S, Singal A, Kaushik A. Hangnail: A simple solution to a common problem. *J Am Acad Dermatol.* 2019 Nov;81(5):e123-e125. doi: 10.1016/j.jaad.2019.06.006.
9. Jakhar D, Singal A, Kaur I. Utilizing a mobile screen protector for dermoscopy to protect the glass plate of a dermatoscope. *J Am Acad Dermatol.* 2020 Apr;82(4):e131-e132. doi: 10.1016/j.jaad.2019.05.041.
10. Singal A, Jakhar D, Kaur I, Pandhi D, Das S. *Tinea Pseudoimbricata* as a Unique Manifestation of Steroid Abuse: A Clinico-Mycological and Dermoscopic Study from a Tertiary Care Hospital. *Indian Dermatol Online J.* 2019 Jul-Aug;10(4):422-425. doi: 10.4103/idoj.
11. Singal A, Bisherwal K. Disorders of nail in infants and children. *Indian J Paediatr Dermatol* 2019; 20: 101-11.
12. Kaur I, Singal A, Jakhar D, Pandhi D. Lymphatic Obstruction as a Rare Complication of Morphea and Response to Intralesional Steroid. *J Cutan Aesthet Surg.* 2019; 12: 68-70.
13. Kataria V, Singal A, Arora VK. Lichen Nitidus Associated with Onychodystrophy and Response to Therapy: Report of Two Cases. *Skin Appendage Disord.* 2019 Apr;5(3):158-161.
14. Jakhar D, Singal A, Kaur I, Pathak P. Indurated Dusky Red Swelling on the Forearm of an Infant: Tufted Angioma. *Indian J Dermatol.* 2019 Mar-Apr;64(2):146-148.
15. Sharma P, Sharma S, Kaul Murthy S, Singal A, Grover C. Comparison of four softening agents used on formalin-fixed paraffin-embedded nail biopsies with inflammatory disease. *J Histotechnol.* 2019 Aug 21:1-8. doi: 10.1080/0147888 5.2019.1642434. [Epub ahead of print]
16. Jakhar D, Grover C, Singal A, Das GK, Madhu SV. Nail fold capillaroscopic changes in patients with type 2 diabetes mellitus: An observational, comparative study. *Indian J Med Spec* 2020;11:28-33.

Dr. Deepika Pandhi

National Journals

1. Madaan N, Pandhi D*, Sharma V, Bhattacharya SN, Guleria K, Mishra K, Bharadwaj M. Association of abnormal cervical cytology with coinfection of human papillomavirus and *Chlamydia trachomatis*. *Indian J Sex Transm Dis AIDS* 2019 Jan-Jun;40(1):57-63.

International Journals

1. Rai G, Das S, Ansari MA, Singh PK, Pandhi D, Tigga RA, Bhattacharya SN, Gupta C, Dar SA. The interplay among Th17 and T regulatory cells in the immune dysregulation of chronic dermatophytic infection. *Microb Pathog*. 2020Feb;139:103921. doi: 10.1016/j.micpath.2019.103921
2. Kumar P, Pandhi D*, Bhattacharya SN, Das S. Trichoscopy as a Diagnostic Tool for Tinea Capitis: A Prospective, Observational Study. *Int J Trichology*. 2020 Mar-Apr;12(2):68-74.
3. GUARDIAN Consortium, Sivasubbu S, Scaria V. Genomics of rare genetic diseases-experiences from India. *Hum Genomics*. 2019 Sep 25;14(1):52

Dr Chander Grover

Publications in indexed journals

1. Grover C, Gupta S, Relhan V, Gupta RP. 17th national conference of association of cutaneous surgeons (I) (ACSICON 2019) conference report. *J Cutan Aesthet Surg* 2020;13:46-9.
2. Jakhar D, Grover C, Kaur I. Polyethylene tube as an attachment to universal serial bus (USB) dermatoscope for preventing cross-infection. *Indian J Dermatol Venereol Leprol*. 2020 Mar 31. doi: 10.4103/ijdv.IJDVL_376_19.
3. Iorizzo M, Tosti A, Starace M, Baran R, Daniel CR, diChiacchio N, Goettmann S, Grover C, Haneke E, Lipner SR, Rich P, Richert B, Rigopoulos D, Rubin AI, Zaiac M, Piraccini BM. Isolated Nail Lichen Planus- an expert consensus on treatment of the classical form [published online ahead of print, 2020 Feb 26]. *J Am Acad Dermatol*. 2020;S0190-9622(20)30300-5. doi:10.1016/j.jaad.2020.02.056
4. Chessa MA, Iorizzo M, Richert B, López-Estebanz JL, Rigopoulos D, Tosti A, Gupta AK, Di Chiacchio N, Di Chiacchio NG, Rubin A, Baran R, Lipner S, Daniel R, Chiheb S, Grover C, Starace M, Piraccini BM. Correction to: Pathogenesis, Clinical Signs and Treatment Recommendations in Brittle Nails: A Review. *Dermatol Ther (Heidelb)*. 2020;10(1):231–232. doi:10.1007/s13555-019-00348-9
5. Grover C, Jakhar D. "Toggle Test" in Dermoscopy of Papulo-Squamous Lesions: An Essential Step for Holistic Evaluation. *Indian Dermatol Online J*. 2019;10(6):741–742. Published 2019 Nov 1. doi:10.4103/idoj.IDOJ_132_19
6. Chessa MA, Iorizzo M, Richert B, López-Estebanz JL, Rigopoulos D, Tosti A, Gupta AK, Di Chiacchio N, Di Chiacchio NG, Rubin A, Baran R, Lipner S, Daniel R, Chiheb S, Grover C, Starace M, Piraccini BM. Pathogenesis, Clinical Signs and Treatment Recommendations in Brittle Nails: A Review [published online ahead of print, 2019 Nov 20]. *Dermatol Ther (Heidelb)*. 2019;10.1007/s13555-019-00338-x. doi:10.1007/s13555-019-00338-x
7. Sharma P, Sharma S, Kaul Murthy S, Singal A, Grover C. Comparison of four softening agents used on formalin-fixed paraffin-embedded nail biopsies with inflammatory disease. *J Histotechnol*. 2019 Aug 21:1-8. doi: 10.1080/01478885.2019.1642434. [Epub ahead of print]
8. Jakhar D, Grover C, Kaur I. Circumferential Nail. *Skin Appendage Disord*. 2019 Jun;5(4):238-241. doi: 10.1159/000496748. Epub 2019 Mar 5.
9. Grover C, Chauhan A, Sharma S. The case of a bleeding nail. *Indian J Dermatol Venereol Leprol*. 2019 Aug 7. doi: 10.4103/ijdv.IJDVL_772_18.
10. Rigopoulos D, Baran R, Chiheb S, Daniel CR 3rd, Di Chiacchio N, Gregoriou S, Grover C, Haneke E, Iorizzo M, Pasch M, Piraccini BM, Rich P, Richert B, Rompoti N, Rubin AI, Singal A, Starace M, Tosti A, Triantafyllopoulou I, Zaiac M. Recommendations for the definition, evaluation, and treatment of nail psoriasis in adult patients with no or mild skin psoriasis: A dermatologist and nail expert group consensus. *J Am Acad Dermatol*. 2019 Jul;81(1):228-240. doi: 10.1016/j.jaad.2019.01.072. Epub 2019 Feb 5.

11. Grover C, Kaul S, Dhawan AK, Narang M, Rathi V. Characteristic patterns of segmental infantile hemangiomas in Indian children: A descriptive study. *Indian J Dermatol Venereol Leprol.* 2019 Jun 6. doi: 10.4103/ijdv.IJDVL_289_18. [Epub ahead of print]
12. Jakhar D, Grover C, Singal A. Nailfold capillaroscopy with USB dermatoscope: A cross-sectional study in healthy adults. *Indian J Dermatol Venereol Leprol.* 2019 Jul 9. doi: 10.4103/ijdv.IJDVL_240_18. [Epub ahead of print]
13. Daulatabad D, Nanda S, Grover C. Erratum: Chemical Peeling for Nail Disorders: Author Response to the Published Comment. *J Cutan Aesthet Surg.* 2018;11(4):250–251. doi:10.4103/JCAS.JCAS_170_18
14. Grover C, Kharghoria G, Bhattacharya SN. Linear nail bed dyschromia: a distinctive dermoscopic feature of nail lichen planus. *Clin Exp Dermatol.* 2019 Aug;44(6):697-699. doi: 10.1111/ced.13809. Epub 2018 Oct 7.
15. Grover C, Ashique KT. Protecting the diseased digits: Home remedy for the homemaker. *J Am Acad Dermatol.* 2019 Jun; 80(6):e139-e140. doi: 10.1016/j.jaad.2018.07.037. Epub 2018 Aug 3. No abstract available.
16. Jakhar D, Grover C, Kaur I. Dendritic pattern: Unique onychoscopic feature in endonyx. *J Am Acad Dermatol.* 2019 Feb 2. pii: S0190-9622(19)30182-3. doi: 10.1016/j.jaad.2019.01.071. [Epub ahead of print]
17. Jakhar D, Grover C, Sharma S. Giant pilomatricoma on the upper back. *Indian J Dermatol Venereol Leprol.* 2019 Jan 31. doi: 10.4103/ijdv.IJDVL_352_18. [Epub ahead of print]
18. Gupta AK, Mays RR, Versteeg SG, PiraccinBM, TakwaleA, ShemerA, BabaevM, Grover C, Di ChiacchioNG, TabordaPRO, TabordaVBA, Shear NH, Pigué V, TostiA. Global perspectives for the management of onychomycosis. *Int J Dermatol.* 2019;58(10):1118–1129. doi:10.1111/ijd.14346
19. Jakhar D, Grover C, Kaur I, Sharma S. Response to "Dermoscopic features of lichen nitidus". *Pediatr Dermatol.* 2019 Jan;36(1):179. doi: 10.1111/pde.13693.

Journals

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board

Dr Archana Singal

- Editorial Board Member: Indian Dermatology Online Journal (IDOJ)
- Section Editor (Tropical Dermatology) for Indian Dermatology Online Journal (IDOJ)
- Editorial Board Member: Journal of Cutaneous and Aesthetic Surgery (JCAS)
- Advisory Board member: Indian Journal of Dermatology
- Member Editorial Board, ONYCHOSCOPE, the Biannual newsletter of Nail Society of India (NSI)

Dr Deepika Pandhi

Convener of the Specialist Board for Dermatology of National Board of Examinations

Member Central Scientific Committee for DERMACON 2020 at Pune, Maharashtra from Jan 18-21st 2020

Assigned Editor: Indian Journal of Dermatology, Venereology and Leprology

Editorial board member of Indian J Sex Transm Dis & AIDS

Dr Chander Grover

- Section Editor, Indian Journal of Dermatology, Venereology and Leprology; a peer reviewed journal of IADVL with an impact factor of 3.03

- Editorial Board Member, Skin Appendage Disorders, an International, peer-reviewed, Pubmed indexed journal.
- Editorial Board Member, Indian Dermatology Online Journal, a peer-reviewed, Pubmed indexed journal.
- Member, Editorial Board of Onychoscope, biannual newsletter of Nail Society of India

IADVL Dermatosurgery Hands-on Workshop on Basic Suturing Skills organized by IADVL-SIG Dermatosurgery, IADVL-Delhi State Branch, and Department of Dermatology and STD, UCMS and GTB Hospital, at UCMS, Delhi 29th of February, 2020

Faculty Strength

Director Professor 2

Professor 3

ENT (MAMC)

Major activities and achievements - The department of ENT and Head & Neck Surgery at Maulana Azad Medical College is one of the best ENT departments in the country for its quality patient care, teaching, training and research. The department headed by Dr. P.K. Rathore, Director Professor and has nine faculty members and three specialists who provide OPD, operative and emergency care apart from their teaching and research obligations. The department teaches two hundred and fifty undergraduate students every year. Regular teaching classes are held for students and practical aspects are taught to them by postings in wards, OPD and operation theatres. The students are expected to work up the cases allotted to them, to discuss them with the faculty and residents, observe and assist in the surgeries and follow up the patients till discharge. The importance is given to practical training of undergraduate as well as postgraduate students. Six postgraduate students were enrolled in department in 2019. During their three year stay in the department, the students learn the management of all cases General ENT, Cochlear Implant, oncology and endoscopy.

Journal Publications

1. Juneja R, Meher R, Raj A, Rathore P, Wadhwa V, Arora N. Endoscopic assisted powered adenoidectomy versus conventional adenoidectomy - a randomised controlled trial. *J Laryngol Otol*. 2019 Apr;133(4):289-293.
2. Tandon S, Meher R, Chopra A, Raj A, Wadhwa V, Mahajan N, Jain A. Tongue Base Schwannoma. *Indian J Otolaryngol Head Neck Surg*. 2019 Oct;71(Suppl 1):70-73.
3. Meher R, Jain A, Singh I, Singh N, Sharma R. Paediatric nasal dermoids: Our experience. *Acta Otorrinolaringol Esp*. 2019 Apr 24. pii: S0001-6519(19)30032-9.
4. Juneja R, Arora N, Meher R, Mittal P, Passey JC, Saxena A, Bhargava EK. Laryngocele: A Rare Case Report and Review of Literature. *Indian J Otolaryngol Head Neck Surg*. 2019 Oct;71(Suppl 1):147-151.
5. Chitguppi C, Raj A, Meher R, Rathore PK. Is the Voice of Professional Voice Users With no Vocal Cord Lesions Similar to that of Non Professional Voice Users? *J Voice*. 2019 Jan;33(1):66-72.
6. Agarwal R, Singh M, Sharma S, Jaiswal A, Jain SL, Khurana N, Meher R. Utility of fine needle aspiration cytology to diagnose intraoral tuberculosis and other oral granulomatous lesions. *Diagn Cytopathol*. 2019 Mar;47(3):156-159.

7. Sharma R, Meher R, Passey JC, Kumar J, Gupta A, Kharbanda S. Comparative evaluation of round window niche accessibility pre-operatively on high-resolution computed tomography of the temporal bone with intra-operative findings. *J Laryngol Otol.* 2019 Jul;133(7):575-579.
8. Jain A, Goyal K, Meher R, Passey JC. Internal Carotid Artery Bleed: A Rare Complication of Invasive Sphenoidal Aspergillosis. *World Neurosurg.* 2019 Sep;129:292-294.
9. Rana K, Bhargava EK, Batra V, Arora N, Meher R. Tuberculous Bronchoesophageal Fistula in Nephrotic Syndrome: A Silent Assassin. *Indian J Otolaryngol Head Neck Surg.* 2019 Oct;71(Suppl 1):104-106.
10. Singh M, Sagar N, Yadav S, Aggarwal R, Mandal S, Khurana N, Jain S, Meher R. Utility of Fine Needle Aspiration in Diagnosis of Intraoral Minor Salivary Gland Tumors. *J Cytol.* 2020 Jan-Mar;37(1):53-57.
10. Agarwal C, Raychaudhuri S, Batra A, Pujani M, Dhingra S. Medullary carcinoma of thyroid mimicking Hurthle cell neoplasm on cytology: a diagnostic dilemma. *Diagnostic Cytopathology;* 47(2019)9:943-47.
11. Patnayak R, Mohanty S, Sahoo AK, Panda AK, Jena A. Pleomorphic adenoma of soft palate with extensive squamous metaplasia – A diagnostic enigma. *J NTR Univ Health Sci* 2019;8:268-71.

Conferences organised -

Adverse effect of Noise on Hearing on International Noise Awareness Day held on 24 April 2019 at Maulana Azad Medical College, New Delhi.

Radiology ENT meeting 10 Aug 2019, Maulana Azad Medical College New Delhi

MIDPHONOCON 2019, 19 Oct 2019, at Maulana Azad Medical College, New Delhi

ENT UPDATE 2019 and live surgical workshop on 5 to 7 Dec 2019, at Maulana Azad Medical College, New Delhi.

Faculty

Director Professor 5

Professor 2

Assistant Professor 2

ENT (LHMC)

Major Activities and Achievements –

Dr. G.B Singh

a. Has been awarded Gold Medal in Consultant paper award at 28th Annual Conference of Indian Society of Otolology, Kolkata Nov 2019.

Dr. Sonali Malhotra

a. Has been awarded Silver Medal in Resident paper award at IAOHNS 2019 & 11th SAARC ENT Conference, Gurugram August 2019.

Departmental activities

- a. Cochlear implant programme started under ADIP scheme by department of ENT.
- b. CO2 laser has been procured and laser surgery has been started by department of ENT.

Publications: Total Number 8 (NATIONAL & INTERNATIONAL)

- Kwatra D, Kumar S, Singh GB, Biswas R, Upadhyay P. Effect of gestational diabetes mellitus on hearing. *Int J ORL-Head Neck Surg.* 2019; 5: 1244-1248.
- Bettadahli V, Singh GB, Kumar S, Kumar P. Enigma of true thyroglossal fistula. *Ear Nose Throat Journal.* Doi: 10.1177/0145561319881258.
- Singh GB, Solo M, Rana N, Kumar S. Evaluation of type III tympanoplasty using cartilage ossiculoplasty in cholesteatoma ear surgery. *Ear Nose Throat Journal.* 2019; 99: 22-26.
- Anamika A, Chakravarti A, Kumar R. Atopy and quality of life in paediatric chronic rhinosinusitis. *American journal of rhinology & allergy.* 2019; 33: 586-90.
- Chakravarti A Bijarniya R Upadhyay P. Effect of mastoid drilling on hearing sensitivity and otoacoustic emissions in normal ear of patients undergoing mastoid surgery. *Indian journal of otology* 2019; 26: 53-57
- Singh GB, Shukla I, Aggarwal K, Malhotra S. A rare case of solitary plexiform neurofibromatosis of the lip. *J Oral Maxfacial Surg Med Path;* doi.org/10.1016/j.ajoms.2019.10.009.
- Kwatra D, Kumar S, Singh GB, Biswas R, Upadhyay P. Can pregnancy lead to changes in hearing threshold. *EarNose Throat J.* 2019; 1-4. Doi: 10.1177/0145561319871240
- Singh GB, Bettadahli V, Malhotra S, Krishna A. An intriguing case of chronic cough in a child. *Journal of clinical and Diagnostic Research.* 2019; 13: M701-MJ02..

Research Projects: 4

1. Dr. K. Kartik Objective measurement of tympanic membrane perforation size in inactive (mucosal) Com and its correlation with hearing loss.
2. Dr. Rohini R Nair Evaluation of otorhinolaryngological manifestations in children with Hema oncological disorders Dr. A. Chakravarti Dr. Jagdish Chandra (Paediatrics)
3. Dr. Moazzam Mujahid Acoustic analysis and video stroboscopic evaluation of voice disorders Dr. A. Chakravarti.
4. Dr. Sonali Malhotra A study of biofilms in chronic otitis media-active squamosal disease Dr. G. B. Singh Dr. Subhash Chandra Yadav (Anatomy, AIIMS) Dr. Ravinder Kaur (Microbiology).

Conferences organized:

S. No.	Name, Venue & Date	Faculty Member	Organiser(s)	Funding agency
1	ISOCON, Kolkata, Nov 2019	Dr. Sunil Kumar Chaired session Indian Society of Otology ISOCON, Kolkata, Nov 2019 Dr. A. Chakravarti	Indian Society of Otology	

		Chaired session Dr. G.B. Singh		
2	41st Annual Conference of the AOI, Delhi, Mar 2019	Dr. Sunil Kumar Dr. A. Chakravarti Dr. G.B. Singh	Association of Otolaryngologists of India Delhi Branch	
3	Conference of Sialendoscopic group of India Ganga Ram Hospital Delhi, June 2019	Dr. Sunil Kumar Dr. A. Chakravarti Dr. G.B. Singh	Ganga Ram Hospital New Delhi	
4	8th ENT update, MAMC Delhi, Dec 2019	Dr. Sunil Kumar Dr. A. Chakravarti Dr. G.B. Singh	Department of ENT, MAMC	
5	International Workshop on Image guided sinus surgery, AIIMS Rishikesh, Nov 2019	Dr. A. Chakravarti Dr. G.B. Singh	AIIMS Rishikesh	
6	Global Endoscopic Ear Surgery Summit, Patna, 23rd-24th Feb 2019	Dr. A. Chakravarti	Association of Otolaryngologists of India Bihar and Jharkhand branch	
7	Mid Phonocon 2019, MAMC, 19th Nov 2019	Dr. A. Chakravarti	Associations of phono surgeons of India	
8	International Conference on Oral cancer and Reconstruction, UCMS Delhi, Dec 2019	Dr. G.B. Singh	UCMS	
9	Hands on Functional Endoscopic Sinus Surgery (FESS) workshop, Maharishi Markandey Institute of Medical Sciences, Mullana, Ambala Oct 2019	Dr. G.B. Singh	Maharishi Markandey Institute of Medical Sciences, Mullana, Ambala	
10	Cochlear Implant Group of India conference, Mumbai, Oct 2019	Dr. G.B. Singh	Cochlear Implant Group of India conference, Mumbai	
11	Shroff hospital, New Delhi, Sept 2019	Dr. G.B. Singh	Shroff hospital, New Delhi	
12	Orient: CME on otology, PARK hotel New Delhi, Sept 2019	Dr. G.B. Singh	Orient: CME on Otology	
13	IAOHNS 2019 & 11th SAARC ENT Conference, Gurugram, Aug 2019	Dr. G.B. Singh	IAOHNS 2019 & 11th SAARC ENT Conference	
14	Workshop for surgeons empanelled under ADIP (Assistance to Disabled Persons) CI (cochlear Implant) scheme. Aliyavar Jung national institute of speech & Hearing Disabilities, VMMC & Safdarjung Hospital New Delhi, Aug 2019	Dr. G.B. Singh	Aliyavar Jung national institute of speech & Hearing Disabilities.	

15	Imaging in ENT, MAMC & associated Hospitals, New Delhi, Aug 2019	Dr. G.B. Singh	MAMC Delhi	
16	CME on Allergic Rhinitis Parwanoo, Himachal, June 2019	Dr. G.B. Singh	Orient: CME on Allergic Rhinitis	
17	FESS (Functional Endoscopic Sinus Surgery) Update, Baba Saheb Bhim Rao Ambedkar Medical College & Hospital, Mar 2019	Dr. G.B. Singh	Baba Saheb Bhim Rao Ambedkar Medical College & Hospital	
18	4th AIIMS Facial Plastics & Rhinoplasty workshop, AIIMS, New Delhi Feb 2019	Dr. G.B. Singh	AIIMS New Delhi	
19	14th Asia-Oceania & 71st Annual Conference of Association of Otolaryngologists of India, Hyderabad, Jan 2019	Dr. G.B. Singh	Association of Otolaryngologists of India	

ENT ARMY HOSPITAL (R&R)

Major Activities and Achievements

The Department of ENT is involved in carrying out state of the art surgeries in ENT including cochlear transplantation and speech therapy, base of the skull surgeries and complicated endoscopic surgeries.

Publications in Journals

1. Singh SK, Samuel S, Gupta DK et al. Degree of association between fludeoxyglucose uptake in palatine tonsils in pet scan and histopathologic examination in follow up cases of non-Hodgkin's lymphoma and Hodgkin's lymphoma. *J. Evolution Med. Dent. Sci.* 2019;8(16):1298-1300. DOI: 10.14260/jemds/2019/289
2. Chugh R, Gupta DK, Yadav R et al. Safety of diagnostic evaluation under anesthesia without endotracheal intubation for head neck squamous cell carcinoma – when should we avoid. *J. Evolution Med. Dent. Sci.* 2019;8(30):2380-2384, DOI: 10.14260/jemds/2019/521
3. Gupta DK, Chugh R, Singh SK, Pati S. Use of the facial artery-based cutaneous island flap (melolabial flap) for reconstruction of the neopharynx following total laryngectomy: a novel technique. *BMJ Case Rep.* 2019;12(8):e230712. Published 2019 Aug 4. doi:10.1136/bcr-2019-230712
4. Ramakrishnan N, Roy R, Singh S et al. Approach to Management of Cerebrospinal Fluid Rhinorrhea: Institutional Based Protocol. *Indian J Otolaryngol Head Neck Surg* (2019). <https://doi.org/10.1007/s12070-019-01728-5>.
5. Chugh, R. The Role of Empirical Treatment with Proton Pump Inhibitor as a Diagnostic Tool in Laryngopharyngeal Reflux. *Indian J Otolaryngol Head Neck Surg* (2019). <https://doi.org/10.1007/s12070-019-01750-7>

6. Singh SK, Gupta SK. Vocal Fold Insufficiency: How Effective is Injection Laryngoplasty? Short Term Clinical Outcomes. *Indian J Otolaryngol Head Neck Surg.* 2019;71(Suppl 1):960-966. doi:10.1007/s12070-019-01642-w
7. Singh SK, Sood T, Sabarigirish K, Swami H, Roy R. Tracheal Stenosis: Evaluation of an Institutional Protocol and Introduction of Novel Surgical Criteria and Scoring System. *Indian J Otolaryngol Head Neck Surg.* 2019;71(4):415-421. doi:10.1007/s12070-018-1567-1
8. Gupta DK, Pati S, Singh S et al. Efficacy of android based mobile device as a screening tool for hearing loss in quiet and noisy environments. *J. Evolution Med. Dent. Sci.* 2019;8(32):2567-2571, DOI: 10.14260/jemds/2019/561
9. Singh SK, Singh R, Goyal S, Roy R, Gupta DK, Chugh R. Diagnosis and treatment of pediatric subglottic stenosis: evaluation of our treatment protocol. *Int J Otorhinolaryngol Head Neck Surg* 2020;6:489-92
10. Chandankhede VA, Singh SK, Roy R, Goyal S, Sridhar MS, Gill MS. Transnasal Transsphenoidal Approach for Pituitary Tumors: An ENT Perspective. *Indian Journal of Otolaryngology and Head & Neck Surgery* 2020. doi:10.1007/s12070-020-01803-2

Research projects undertaken

1. A pilot study to assess if human papilloma virus positivity or expression of P16 in neck nodes can be used as a surrogate marker in guiding localization of primary tumor in neck metastasis in head and neck squamous cell carcinoma
2. A prospective randomized control trial to assess the outcomes of cochlear implantation via cochleostomy vs rounds window insertion in prelingual deaf children
3. Evaluation of swallowing in patients of oral cavity cancer
4. Study the role of narrow band imaging in detecting recurrence in patients of squamous cell carcinoma larynx and hypopharynx
5. Role of computer assisted auditory verbal therapy in cochlear implantees

Conferences organised

1. IAOHNS Pre-Workshop on 14,15,16 August 2019
2. Symposium on head neck oncology MDTC November 2019
3. AOI Delhi monthly clinical meet on January 2020
4. Monthly clinical meet February 2020

Extension and outreach activities

1. WHO World Hearing Day Educational Workshop on 06 March 2020

FORENSIC MEDICINE (MAMC)

Major Activities and Achievements

The Department conducted 991 postmortem examinations and 93 MLCs. The faculty members are involved in academics and are appointed as examiners in prestigious institutes around the country. The faculty members are nominated by the Govt, CBI as chairman/board members in sensitive cases and are included as part of policy making boards by the government.

The Departmental mortuary had to swiftly turn into a COVID center for management of the dead bodies during the pandemic. This required up-gradation of existing facilities, collaboration with the hospital staff, burial and cremation grounds. SOPs were formulated by the HOD along with faculty. The ambulance services and staff were increased to handle the crisis. Regular training of staff was conducted. Round the clock mortuary services was offered to the public. Postmortem examination on MLC deaths of suspected and COVID positive dead bodies were routinely conducted using all safety and precautionary measures.

Honours/Distinctions:

- Dr. Sreenivas M. was awarded a 'Certificate of contribution for imparting valuable knowledge and insights to the fellows of IBFO' during the academic year 2018-19 by Indian Board of Forensic Odontology on 20 th September 2019.
- Dr Sreenivas M. was awarded "The International Certificate on Principles of Bioethics and Human rights of the UNESCO Universal Declaration on Bioethics and Human Rights on 30th June 2019 by UNESCO Chair Bioethics Haifa, Department of Education.

Publications:

- Mittal Anil Kumar, Gupta Mohit. (2019) Determination of stature from female sternum in central Delhi population. Journal of IAFM Jul- Sept.
- Kaur Amandeep, Pradhan Monisha. (2019). Pattern of Suicidal Burn Deaths Brought To The Mortuary of Lok Nayak Hospital, New Delhi-a Five Year Study. J Punjab Acad Forensic Med Toxicol,19(2).
- Kaur Amandeep, Pradhan Monisha. (2019). Fatal Intentional Poisoning: A Five Year Retrospective Study of Autopsied Cases from Central Delhi. J Punjab Acad Forensic Med Toxicol,19(2)
- Pradhan Monisha, Kaur Amandeep. (2019). A 5 Year Study of Deaths Following Administration of Medically Prescribed Drugs: Diagnostic Dilemma and Challenges at Autopsy. Indian Internet Journal of Forensic Medicine & Toxicology, (1) 17: 1-7.
- Buchade DD, Bharti R, A Arthy, Mittal AK, Khanna SK. (2019). Analysis of Hanging Cases Brought to Mortuary of Lok Nayak Hospital, New Delhi: A 3-Year Retrospective Study. MAMC J Med Sci 2019; 5: 69-72.
- Buchade DD, Bharti R, A Arthy. (2019). Analysis of Homicidal Cases Brought to Mortuary of Lok Nayak Hospital, Delhi: A 3-Year Retrospective study. MAMC J Med Sci 2019; 5: 73-6.

Journals: Dr. Anil Aggrawal is Editor in Chief of the journal "Ail Aggrawal's Internet Journal of Forensic Medicine and Toxicology".

Research Projects:

- Research Project titled 'Evaluation of Diagnostic Significance of Postmortem Serum Tryptase and IgE levels for Anaphylactic deaths and its Correlation with Routine Parameters: An Autopsy Based Pilot

Study”. Principal Investigator: Dr. Monisha Pradhan, Co-Investigators: Dr B C Koner and Dr. S K Khanna was completed and submitted in April 2019.

Conferences Organized:

- “Medicolegal Training Program for Medical Officers and Resident Doctors” was organized in the Dept. of Forensic Medicine on 15.05.2019.
- 17th National Conference of Indian Association of Forensic Odontology, MAIDS, 21st-22nd September 2019 was organized by MAIDS in association with the Dept. of Forensic Medicine. Dr. Sreenivas M. conducted a preconference workshop on “Oral Autopsy-A practical approach” on 20th of September

Seminars/Conference Presentation (International):

International

- Dr. Monisha Pradhan presented a paper titled “Faith or Delusion: Death Investigation of a Bizarre Mass Hanging- A Case Report and Review of Literature” at the National Association of Medical Examiners 2019 Annual Meeting October 18-22, 2019 in Kansas City, Missouri, USA.
- Dr. Monisha Pradhan presented a poster titled “Postmortem Serum Levels of Beta Tryptase and Total IgE in Non Anaphylactic Deaths” at the National Association of Medical Examiners 2019 Annual Meeting October 18-22, 2019 in Kansas City, Missouri, USA.

Faculty Strength: 8

FORENSIC MEDICINE AND TOXICOLOGY (LHMC)

Publications:

- a). Rani M, Singh RK, Duchania SK, Chouksey VK. Self-medication and death: A Reality. Intern J Med Toxicol LegMed 2019 June; 22(1-2): 92-93.
- b). Singh S, Kumar A, Singh RK, Kumar M. A Systemic review of vegetable poisoning and challenges in management. International Journal of Forensic Medicine and Toxicological Sciences. 2019 Jan-March; 4(1): 4-9.
- c). Kumar A, Singh RK, Kumar M, Bansal MK. Haemorrhagic Pancreatitis: Traumatic or otherwise-A misinterpretation. Indian Internet Journal of Forensic Medicine & Toxicology. 2019 June; 17(2); 43-46.
- d). Kumar A, Singh RK, Kumar M. Traumatic brain injury premature discharge: Negligence or Not? Indian Journal of Legal Medicine. 2019 June; 1 (1); 23-25.
- e). Kumar A, Badhal S, Singh RK, Solanki R, Kumar M, Keshwani P. Post anesthesia clumping of cauda equine nerve roots after hip replacement surgery – Allegation of Medical Negligence: A Case Report and Review. Indian J Leg Med. 2019 Dec; 1(2): 74-77.
- f). Kumar A, Singh RK, Solanki RK, Bansal MK. Complications of brain disease during a radiological intervention: an alleged case of medical negligence. Indian Internet J for Med Toxicol. 2019 Jul- Sep; 88-92.
- g). Bansal MK, Singh RK, Garg P, Kumar M. Durg abuse and HIV risks- An autopsy-based study. International J for Med Toxicol Sci. 2019 March; 4(1): 15-18.

H). Chand M, Kumar R, Anisha S, Saloni C. Estimation of time since death by vitreous humor electrolytes concentration. International J For Sci 2019 Nov; 4(4): 000173.

i). Kumar K, Yadav N, Keshwani P, Yadav G, Giri SK, Gaba K. Slaughters creams from a Tarry Grave-A Case Report. Indian J Current Adv Res 2019 Oct; 8 (10A): 20075-20077.

Research Projects

Name of Investigator	Project Incharge	Title of the Project Scheme	Budget in Rs.
Dr. Nisha Nupur	Dr. Yashoda Rani	Variations in length and position of vermi form appendix- An autopsy based study	Nil
Dr. Meenu	Dr. Mukta Rani	Determination of gender from hand and foot measurements	Nil
Dr. Monika Goyal	Dr. Arvind Kumar	An autopsy based study to estimate stature from adult clavicle	Nil
Dr. Shrayash Singh	Dr. Sukhdeep Singh	An autopsy based study of osteometric differences of patella for sexual dimorphism	Nil

Conferences organized:

S. No.	Faculty Member	Organizer (s)	Name, Venue & Date
1	Dr. Mukta Rani	Deptt of Forensic Medicine & Toxicology	CME on Gender estimation from femur in 2019 LHMC, New Delhi
2	Dr. Sukhdeep Singh	Deptt of Forensic Medicine & Toxicology	CME on Examination of hair and fibres in 2019 LHMC, New Delhi
3	Dr. Arvind Kumar	Deptt of Forensic Medicine & Toxicology	CME on Arthropod succession on exposed human tissue in 2019 LHMC, New Delhi
4	Dr. Rishi Solanki	Deptt of Forensic Medicine & Toxicology	CME on Blood spatter pattern in 2019 LHMC, New Delhi

Seminars/Conferences Presentations (National/ International):

S. No.	Name	Role	Organizer	Name, Venue & Date
	Dr. Mukta Rani	Delegate, Forensic research and analysis	Select Biosciences India Annual	New Delhi, April 2019 NSCB

		Delegate–Advance approach in medicolegal issues and current trends	National conference of Medicolegal Expert Association Madhya Pradesh	Medical College & Hospital, Jabalpur, Madhya Pradesh 12th -13th Jan 2019
	Dr. Yashoda Rani Delegate 7th Oncocon-2019 & Ist AROI Delegate, International summit on transversality of humanitarian forensics East Oncology group International Center for Humanitarian Forensics and Gujrat Forensic Sciences University Jharkhand Chapter 17th -18th Aug 2019 Gandhinagar Gujrat 5th -7th Sept 2019	Delegate 7th Oncocon-2019 & Ist AROI Delegate, International summit on transversality of humanitarian forensics	East Oncology group International Center for Humanitarian Forensics and Gujrat Forensic Sciences University	Jharkhand Chapter 17th -18th Aug 2019 Gandhinagar Gujrat 5th -7th Sept 2019
	Dr. Shrabana Kumar Naik	Presented paper on 'Mob violence in mortuary complex' - Causes and prevention	IAFM	Dr. S.N Medical College, Jodhpur 31st Jan, -2nd Feb
	Dr. Sukhdeep Singh	Training on forensic examination of sexual assault cases Panelist/Panel discussion on approaching a victim of sexual assault	National Institute of Criminology and Forensic Sciences (NICFS), Rohini, New Delhi	NICFS Workshop, Rohini, New Delhi, 18th -19th Nov 2019.
	Dr. Arvind Kumar	Panelist/Panel discussion on approaching a victim of sexual assault training on forensic examination of sexual assault cases	LHMC, New Delhi. National Institute of Criminology and Forensic Sciences (NICFS), Rohini, New Delhi	Panel discussion, New Delhi, 30th Mar 2019. NICFS Workshop, Rohini, New Delhi 11th - 12th Oct 2019.
	Dr. S.K Naik Dr. Arvind Kumar	Participated in curriculum implementation support programme	Medical Education Unit, LHMC	MEU Hall, LHMC 29th Apr -1st May 2019

Faculty Strength: 8

GASTROENTEROLOGY (GIPMER AND ASSOCIATED MAMC)

Major Activities and Achievements

- Imparted Observer-ship & Training to five Gastroenterologists from different parts of India and one from Nepal
- Conferences/Workshops organized; (a) ERCP Spyglass Cholangioscopy & Axios LAMS Live Workshop, (b) POEMS For Achalasia Live Workshop, (c) Coordinated Asian-Pacific Consensus on SIBO in GI Disorders
- Fifteen High Quality Publications by Gastroenterology Faculty in National/International Journals
- The Senior Residents (DM) of the Department presented original research papers as oral/poster in several International/National Conferences
- Two DM-Students ---Dr. Mayank Agarwal & Dr Gaurav won Travel Grant Awards in International Conferences
- The Faculty were invited as Speaker/Moderator/Chairperson/Panelist in several National & International Conferences
- More than 18000 (which is highest in any Gastroenterology Center in Delhi) Endoscopic Procedures performed including UGIE, LGIE, ERCP, EUS, 3rd space advanced endoscopy
- More than 95000 Hepatitis Serologies performed
- New Facilities added: POEM procedure started for treatment of Achalasia cardia, Therapeutic Drug Monitoring (TDM) for patients with IBD on Biological Drugs

Honors/Distinctions

- Dr. AS Puri-- was awarded Fellowship of National Academy Of Medical Science (India)
- Dr. AS Puri & Dr. S. Sachdeva selected as Experts for Asian-Pacific Consensus on Small Intestinal Bacterial Overgrowth (SIBO) in GI Disorders
- Dr. S. Sachdeva--Vice-President—IMFDA (Indian Motility & Functional Diseases Association)
- Dr. S. Srivastava—Appointed as Subject expert on Ayushman Bharat Union Government of India 2019

Students with Distinction

- Dr. Mayank Agarwal was the topper in DM (Exit) Examination

Publications—Total—15

- Nonsurgical management of gastroduodenal tuberculosis: Nine-year experience from a tertiary referral center. Dalal A, Puri AS, Sachdeva S, Sakuja P. *Endosc Int Open*. 2019 Oct;7(10):E1248-E1252..
- Tissue Xpert® MTB/RIF Assay in Peritoneal Tuberculosis: To be (Done) or Not to be (Done). Dahale AS, Puri AS, Kumar A, Dalal A, Agarwal A, Sachdeva S. *Cureus*. 2019 Jun 26;11(6):e5009.
- Gastrointestinal: Radiation proctitis: Or is it something else? Sonika U, Sahu B, Dahale AS, Srivastava R, Saran RK, Sachdeva S. *J Gastroenterol Hepatol*. 2019 Jul;34(7):1131

- Role of linear endosonography in the diagnosis of biopsy-negative malignant esophageal strictures: Exploring the unexplored. Amol S Dahale, Siddharth Srivastava, Ujjwal Sonika, Ashok Dalal, Aditi Goyal, Puja Sakhuja, Sanjeev Sachdeva, Amarendra S Puri. *JGH Open*. 2019 Jul 18;4(2):113-116.
- Indian Consensus on gastro esophageal reflux diseases in adults: A position statement of the Indian Society of Gastroenterology. SJ Bhatia, GK Makharia, P Abraham, N.Bhat, A Kumar, AS Puri, DN Reddy, et al. *Indian Journal of Gastroenterology* 2019; 38(5): 411-440
- Mucoepidermoid Carcinoma of the Gallbladder: A Case-Based Study of an Extremely Rare Tumor Highlighting the Role of Immunohistochemical Profiling. Nallacheruvu Y, Gaur K, Sakhuja P, Agarwal AK, Srivastava S. *Int J Surg Pathol*. 2019 Jun;27(4):418-422
- Utility of cytomorphology in distinguishing solid pseudopapillary neoplasm of pancreas from pancreatic neuroendocrine tumor with emphasis on nuclear folds and nuclear grooves. Misra S, Saran RK, Srivastava S, Barman S, Dahale A. *Diagn Cytopathol*. 2019 Jun;47(6):531-540.
- Complications constitute a major risk factor for mortality in hepatitis B virus-related acute-on-chronic liver failure patients: a multi-national study from the Asia-Pacific region. Chen T, Yang Z, Choudhury AK, Sharma BC, et al. *Hepatol Int*. 2019 Nov;13(6):695-705
- APASL HCV guidelines of virus-eradicated patients by DAA on how to monitor HCC occurrence and HBV reactivation. Kanda T, Lau GKK, Wei L, Moriyama M, Yu ML, Chuang WL, Ibrahim A, Lesmana CRA, Sollano J, Kumar M, Jindal A, Sharma BC, et al. *Hepatol Int*. 2019 Nov;13(6):649-661
- Acute-on-chronic liver failure: consensus recommendations of the Asian Pacific association for the study of the liver (APASL): an update. Sarin SK, Choudhury A, Sharma MK, Maiwall R, Al Mahtab M, Rahman S, Sharma BC, et al; APASL ACLF Research Consortium (AARC) for APASL ACLF working Party. *Hepatol Int*. 2019 Jul;13(4):353-390
- ERCP-related perforation: an analysis of operative outcomes in a large series over 12 years. Patil NS, Solanki N, Mishra PK, Sharma BC, Saluja SS. *Surg Endosc*. 2020 Jan;34(1):77-87
- Association of endotoxaemia & gut permeability with complications of acute pancreatitis: Secondary analysis of data. Singh N, Sonika U, Moka P, Sharma B, Sachdev V, Mishra SK, Upadhyay AD, Saraya A. *Indian J Med Res*. 2019 Jun;149(6):763-770.
- Lowering Portal Pressure Improves Outcomes of Patients With Cirrhosis, With or Without Ascites: A Meta-Analysis. Turco L, Villanueva C, La Mura V, García-Pagán JC, Reiberger T, Genescà J, Groszmann RJ, Sharma BC, Merkel C, Bureau C, Alvarado E, Abraldes JG, Albillos A, Bañares R, Peck-Radosavljevic M, Augustin S, Sarin SK, Bosch J, García-Tsao G. *Clin Gastroenterol Hepatol*. 2020 Feb;18(2):313-327.e6.
- A double-blind randomized controlled trial to assess efficacy of bromocriptine in cirrhotic patients with hepatic parkinsonism. Sahney A, Sharma BC, Jindal A, Anand L, Arora V, Vijayaraghavan R, Dhamija RM, Kumar G, Bhardwaj A, Sarin SK. *Liver Int*. 2019 Apr;39(4):684-693.
- Important Unresolved Questions in the Management of Hepatic Encephalopathy: An ISHEN Consensus. Bajaj JS, Lauridsen M, Tapper EB, Duarte-Rojo A, Rahimi RS, Tandon P, Shawcross DL, Thabut D, Dhiman RK, Romero-Gomez M, Sharma BC, Montagnese S. *Am J Gastroenterol*. 2020 Mar 30.

Journals

- Published by the College—MAMC monthly Journal

- Number of Faculty Members serving as Editors/Editorial Board Members: 3 (Dr. AS Puri, Dr. BC Sharma, Dr. Sanjeev Sachdeva)

Research Projects

- Total Six projects of DM-Gastroenterology Students: Ongoing
- Total three projects of DM-Gastroenterology Students: Completed & submitted to University of Delhi as Thesis

Seminars /Workshops Organized

- ERCP Spyglass Cholangioscopy & Axios LAMS Live Workshop
- POEMS For Achalasia Live Workshop
- Coordinated Asian-Pacific Consensus on SIBO in GI Disorders

Seminar/Conference Presentations

- Dr. AS Puri, Dr. BC Sharma, Dr. Sanjeev Sachdeva, and Dr. Ajay Kumar were invited as Speaker/Moderator/Chairperson/Panelist in several National & International Conferences

Students under Exchange Programme

- Imparted Observer-ship & Training to five Gastroenterologists from different parts of India and one from Nepal

GENERAL MEDICINE ARMY HOSPITAL (R&R)

Major Activities and Achievements

The Department of Medicine at Army Hospital (R & R) has been providing patient care services to vast number of inpatients as well as outpatients through its general and special OPDs along with dedicated wards, coronary care and dialysis units and round the clock emergency services. The department has been actively participating in activities by various national professional societies. The department has been actively involved in the training of MD medicine residents along with sister specialities like Pathology and Radiology. It includes bedside clinic, journal clubs, problem case discussion and seminars.

Awards and Honours

1. Dr Sandeep Kumar, SR Medicine won the first prize for oral paper presentation in Endocrine update 2020
2. Dr Mandeep Sharma, SR Medicine won the first prize for oral paper presentation in midterm ESICON in Mar 2019
3. Dr Rakhi Malhotra, Assistant Professor, awarded the AV Gandhi award for best research work in Endocrinology by ESI in Mar 2019
4. Dr Uday Y, Associate Professor, Cohelo memorial national Oration by API India

5. Dr Uday Y, Associate Professor, Dr. E Merck Award by the Association of Physicians of India - 2020
6. Dr Uday Y, Associate Professor, Dr. DP Basu Award by the Association of Physicians of India - 2019
7. Dr Uday Y, Associate Professor, Director General Armed Forces Medical Services AVISHKAAR Award - 2019

Publications in Journals

1. P Sinha, Singhal A, Saikat B. A rare entity– Rhupus. Case report published in Indian Dermatol Online J 2019; 10:58-60. DOI: 10.4103/idoj.IDOJ_55_18
2. Sonal S, Singhal A. Case report - A rare case of Myxedema coma. Amrita Jo of Medicine vol 15 no 2apr – jun 2019, pages 41-2.
3. CA Tukaram, Singhal A, Mohanty CS. Evaluation of clinical profile of SLE. Indian journal of Applied Research. Vol 9, issue 5. May 2019: page 27-29.
4. Anuj Singhal, Sonal Singh. A case of recurrent fractures: a case report. Amrita Jo of Medicine vol 15 no 3 Jul – Sep 2019, pages 35-7.
5. Anuj Singhal, Nitin D. Osteopoikilosis- an incidental finding: a case report. Amrita Jo of Medicine vol 15 no 3 Jul – Sep 2019, pages 43 - 44.
6. Singhal A, Jambunathan P, S Awasthi, Manrai M, Aarshi Sashindran. E-learning in Medicine: are we ready to replace text books? Journal of Research in Medical education & ethics. Vol 9, no. 3. Nov 2019, pp 212-15.
7. Priyank Y, Mithun CB, V Marwaha, Harikrishnan B, Singhal A, Suman KP. Prevalence of anaemia in a cohort of rheumatoid arthritis patients in India. Ind journal of applied research. Vol 9, Issue 3, March. Page 67-69.
8. Singhal A, S Shankar, Sonal S, AK Yadav, H Anup, Anjali B. Introduction of Mini-CEX as a mode of assessment for postgraduate students in Medicine for examination of sacroiliac joints. Paper read during IRACON 2019 at JIPMER Puducherry on 05 Dec 2019.
9. Singhal A, S Shankar, AK Yadav, Sonal S, H Anup, Anjali B. Introduction of Mini-CEX as assessment tool for postgraduate students in Medicine for examination of sacroiliac joints. Ind Jo of Rheumatology. Volume 15, Issue 1, March 2020, p no 23-26. DOI 10.4103/injr.injr_106_19
10. V Marwaha, A Singhal, N Sidhartan, P Raman, R Ganapathy et al. Persistence with methotrexate therapy in Rheumatoid arthritis in two tertiary care centers in India. Ind journal of applied research. Dec 2019. Page 43-45.
11. N Sidhartan, M Unni, V Marwaha, A Singhal, P Yadav et al. Prevalent practices in the management of Gout: A three centre study from India. Ind journal of applied research. Dec 2019. Page 46-48.
12. PM Dixit, A Singhal, V Mangal. Covid Vaccine: an international Holy grail. Review article. JMMS 2020 | Volume : 22 | Issue : 3 | Page : 20-26. DOI:10.4103/jmms.jmms_92_20.
13. Dogra PM, Shanmugraj G, Jana S, Hooda AK, Sharma A. Adult glomerular diseases in east zone and zonal prevalence in India: An Omnium Gatherum. Int J Community Med Public Health 2019; 6: 3038-48.
14. Joshi A, Sood V, Dua A, Dogra PM, Singh P, Shikha. Unilateral isolated hypoglossal nerve palsy: A rare complication of Diabetes Mellitus. Int J of Neuro Res. 2019; 1: 1-2.

15. Sood V, Joshi A, Verma S, Dua A, Ramachandran R, Dogra PM. Perplexing Etiology of Grey Turner Sign -Perinephric Hematoma in Dengue. *International Journal of Research and Review*. 2019; 6(11):561- 563.
16. Joshi A, Sood V, Mendonca S, Dogra M, Batta G, Tiwari R, et al. Catastrophic antiphospholipid syndrome in immune thrombocytopenic purpura – Beyond tenuous concomitance! *Indian J Nephrol* 2020;30:424-6.
17. Anvesh Rathore, S Vishwanath, Subhash Ranjan, Abhishek Pathak, AP Dubey, P Nikhil; Clinicoepidemiological Correlation of BRCA 1 and 2 Mutations in Carcinoma Ovary - an Indian Perspective- *Indian Journal of Medical and Paediatric Oncology* Year : 2019 | Volume : 40 | Issue : 4 | Page : 484-490
18. Giant right atrial myxoma presenting as right heart failure: a rare manifestation. S Agstam, B Kumar, N Dahiya, VS Guleria. *BMJ Case Reports* CP 13 (3), e230461
19. Srivastava, Swati, Iti Garg, Babita Kumari, Chhavi Rai, Yamini Singh, Vinay Kumar, Uday Yanamandra, Jasjit Singh, Anju Bansal, and Bhuvnesh Kumar. “Diagnostic potential of circulating micro RNA hsa-miR-320 in patients of high altitude induced deep vein thrombosis: An Indian study.” *Gene Reports* 17 (2019): 100550.
20. Pal R, Yanamandra U, Kumar P, Banerjee N. Benign Subcutaneous Nodules and Hypereosinophilic Syndrome: A Rare Presentation of an Uncommon Entity. *Case Rep Med*. 2019 Nov 18; 2019: 2387832.
21. Das S, Yanamandra U, Iqbal S, Kapoor R. Multiple myeloma mimicking primary bone tumour. *BMJ Case Rep*. 2019 Oct 8;12(10).
22. Kumar R, Kapoor R, Singh J, Das S, Sharma A, Yanamandra U, Nair V. Splenic Infarct on Exposure to Extreme High Altitude in Individuals with Sickle Trait: A Single-Center Experience. *High Alt Med Biol*. 2019 Sep;20(3):215-220.
23. Yanamandra U, Bhattachar SA, Katoch D, Yanamandra S, Shankar S, Kumari VKL, Ayekappam A, Kumar S, Patyal S, Nair V. Anthropometric evaluation of school-going native highlanders (4-19 years of age) from the Leh-Ladakh region in India. *Int J Adolesc Med Health*. 2019 May 10. doi:10.1515/ijamh-2018-0253.
24. Sahu KK, Yanamandra U, Kakkar N, Malhotra P. Rare Presentation of Mucormycosis in Aplastic Anaemia: Isolated Hepatic Mucormycosis. *Mycopathologia*. 2019 Apr;184(2):347-348.
25. Yanamandra U, Malhotra P. Stem Cell Transplantation in Multiple Myeloma: Very Much Alive and Kicking. *Indian J Hematol Blood Transfus*. 2019 Apr;35(2):205-207. doi: 10.1007/s12288-019-01111-y. Epub 2019 Mar 13. PubMed PMID: 30988553; PubMed Central PMCID: PMC6438993.
26. Khera S, Pramanik SK, Kalra S, Dwivedi A. Type B lactic acidosis due to Warburg effect in a child presenting with T cell acute lymphoblastic leukaemia: a milder phenotype. *BMJ Case Rep*. 2020 Mar 17;13(3):e233941. doi: 10.1136/bcr-2019-233941. PMID: 32188616; PMCID: PMC7078780.
27. Khera S, Pramanik SK, Patnaik SK. Transcobalamin deficiency: vitamin B12 deficiency with normal serum B12 levels. *BMJ Case Rep*. 2019 Oct 30;12(10):e232319. doi: 10.1136/bcr-2019-232319. PMID: 31666257; PMCID: PMC6827761.
28. Kopp CR, Kumar M, Sandal R, Mishra K, Malhotra P. Thalasaemia and extramedullary haematopoiesis. *QJM*. 2019 Jul 1;112(7):543-544. DOI:10.1093/qjmed/hcz008.

29. A. Mishra K, Jandial A, Sandal R, Lad D, Prakash G, Khadwal A, et al. Poor Mobilisation After Daratumumab Based Combination Chemotherapy in Patients of Newly Diagnosed Multiple Myeloma. *Indian J Hematol Blood Transfus*. 2019 Jul;35(3):584-586.
30. Kumar M, Mishra K, Rajendiran R, Jain A, Sharma N. The Double Doughnut Sign on Brain Magnetic Resonance Imaging Caused by Japanese Encephalitis. *J Emerg Med*. 2019 Aug;57(2):245-246.
31. Mishra K, Jandial A, Khadwal A, Malhotra P. Gingival Hypertrophy. *BMJ*. 2019;364:l708. DOI:10.1136/bmj.l708
32. Sandal R, Porchezian P, Mishra K, Jandial A, Khadwal A, Malhotra P. Mees lines. *QJM*. 2019 Aug 1;112(8):633. DOI:10.1093/qjmed/hcz034
33. Sandal R, Gupta P, Jandial A, Mishra K, Lad D, Naseem S, et al. Chronic Myeloid Leukemia Presenting with Fleeting Facial Nerve Palsy. *Indian J Hematol Blood Transfus*. 2019 Apr;35(2):371-372. DOI:10.1007/s12288-019-01080-2
34. Mishra K, Jandial A, Singh V, Radotra BD, Malhotra P. Priapism in chronic myeloid leukemia: Meeting at the crossroad and heading in different directions. *Indian J Med Paediatr Oncol* 2019. DOI: 10.4103/ijmpo.ijmpo_234_1
35. Sandal R, Saroch A, Mishra K, et al. Half and half abdomen. *JEM* 2019. doi.org/10.1016/j.jemermed.2019.09.002
36. Kaundal R, Bhatia P, Jain A, Jain A, Nampoothiri RV, Mishra K, et al. Randomized controlled trial of twice-daily versus alternate-day oral iron therapy in the treatment of iron-deficiency anemia. *Annals of Hematology* 12/2019; 99(1)., DOI:10.1007/s00277-019-03871-z
37. KamalKant Sahu, Kundan Mishra, Pankaj Malhotra: Extramedullary deposits in leukemia: Out of blood but not out of mind. 01/2019;., DOI:10.4103/JMAU.JMAU_61_18
38. Kunal Kishore, Vivek Vasdev, Arjun MN . Nailfold capillaroscopic profile of connective tissue disease - related interstitial lung disease at a tertiary care center in north India., *international journal of scientific research* : Volume-9 | Issue-1 | Jan-2020
39. The Metabolic control with Insulin Pump use in Post-Transplant Diabetics - An Indian Experience Paripex - Indian Journal of Research Volume-8 | Issue-4 | April-2019.KS Brar, Naresh Bansal, MK Garg
40. Etiological and Risk Factor Profile of Stroke in Young Serving Soldiers at High Altitude Paripex - Indian Journal of Research Volume-8 | Issue-5 | May-2019. Amit Sreen,Ks Brar,Naresh Bansal
41. The Levels of Serum Cortisol in High Altitude Pulmonary Oedema – Is it the cause International Journal of scientific Research, Jan 2020.KS Brar,Naresh Bansal,Rakhi Malhotra,Amit Sreen.
42. Non inferiority study and Anti inflammatory effect of DPP-4 inhibitors in treatment naïve Type 2 Diabetes mellitus patients. Paripex - Indian Journal of Research Volume-8 | Issue-8 | August-2019.Naresh Bansal,SK Singh
43. Comparison of Oral Glucose Tolerance Test and Oral Glucose Challenge Test in Gestational Diabetes Mellitus Paripex - Indian Journal of Research Volume-8 | Issue-10 | October - 2019. Naresh Bansal,Monica Aggarwal,A Marwaha
44. The Prevalence of Vitamin D Deficiency among antenatal cases & its Correlation with Adverse Pregnancy Outcome World Journal of Pharmaceutical and Medical Research. Reema Kumar Bhat,Naresh Bansal

Editorial board of Journals

1. Dr Anuj Singhal is reviewer for MJAFI, JMMS, JCDR, IJASM, AMJD, CHRISMED, JRMEE,

Research projects undertaken

1. Singhal A, VK Sashindran, A Aggarwal, AK Yadav, S Kayastha. Utility of BAFF and APRIL cytokines as markers of response to ATT in patients with active TB- A pilot study. funded by RNTCP STO Maharashtra as Operational Research Project.
2. Randomised controlled trial to compare oral iron supplementation in once daily versus alternate day dosage to single dose parenteral iron therapy for correction of iron deficiency in subjects with stage G3-4 chronic kidney disease.
3. Standard versus low-dose cyclical cyclophosphamide and steroids in the treatment of primary membranous nephropathy- a randomized controlled trial
4. To study the levels of FGF 23 in Acute kidney injury patients undergoing cardiac surgery and to study the impact of increased levels of FGF 23 on clinical outcome : A single centre prospective observational study.
5. To evaluate predictive value of Dialysate Interleukin-6 (IL-6) representing local subclinical intraperitoneal inflammation for development of peritonitis in continuous ambulatory peritoneal dialysis patients: A single centre prospective observational study.
6. To predict the treatment response to somatostatin analogues based on expression of biomarkers on Somatotropinomas: AFMRC project (2020-2022)
7. To study the requirement of routine post dilatation in DET by OCT in patients undergoing angioplasty.
8. Multicentric randomized study comparing long term outcome in standard risk multiple myeloma post autologous stem cell transplantation with or without bortezomib based consolidation - AFMRC 4905/2017
9. Use of galactomannan enzyme immunoassay for the diagnosis, monitoring and optimization of anti-fungal therapy for invasive aspergillosis in neutropenic patients of acute leukemia and hematopoietic stem cell transplantation in an armed forces tertiary care center. - AFMRC 4516/2014
10. Identification of biomarkers of high altitude induced thromboembolic disorders. DIPAS-DIP263
11. To predict the treatment response to somatostatin analogues based on expression of biomarkers on Somatotropinomas: AFMRC project (2020-2022)
12. To study occult HBV infection in HBsAg discordant couples in the HBsAg negative partner and to formulate guidelines to vaccinate them.

Seminars organised

1. Every week departmental seminars are being organised for PG residents
2. Dialysis, Acute Kidney Injury, Chronic Kidney Disease, Rapidly Progressive Renal Failure, Post renal transplant infections, hematuria, Urinary abnormalities
3. Endocrine departmental seminars twice weekly, Endo club Delhi Sep 2020 and Oct 2019
4. Antiphospholipid syndrome : Aug 2019 at Medical division, Army Hospital (R&R)

5. Systemic Lupus erythematosus: Dec 2019 at Medical division, Army Hospital (R&R)
6. Axial Spondyloarthritis Feb 2020all at Medical division, Army Hospital (R&R)

Conferences organised

1. Updates on uncommon Malignancies (webinar) 20-21 Oct 2020

GENERAL SURGERY ARMY HOSPITAL (R&R)

Major Activities and Achievements

The department of surgery is carrying out all types of surgeries and imparts active training of PG students with bedside clinics, weekly departmental seminars and hands on training in OT. They also impart active training in laparoscopic surgery and there is regular rotation of students to superspeciality departments.

The department has created a virtual study room (The Excalibur) where all the students can practice their surgical skills on dummy patients.

Publications in Journals

1. STELA - smart TV and smart phone based laparoscopic trainer - a no cost home based trainer for beginners. Authors – JS Sandhu, Puneet Aggarwal. URL - doi.org/10.1016/JMJAFI.2020.01.005 dt 11/01/2020.

Research projects undertaken

1. Transcutaneous oximetry as a tool to guide treatment in patients with peripheral arterial occlusive disease
2. A study of biomarkers of obesity before and after bariatric surgery - a pilot study

Departmental Research Projects undertaken

1. Role of gamma probe in sentinel lymph node biopsy on carcinoma breast with node negative axilla

Seminars organised

1. Laparoscopic hemithyroidectomy in a tertiary care center
2. Role of robotic surgery in pelvic pathologies

Conferences organised

1. Mini Vs standard PCNL in management of renal pelvic calculi

Other inter institutional collaborations

1. AIIMS New Delhi, PGI Chandigarh , GB Pant hospital New Delhi, Medanta Gurgaon are being collaborated with for various projects.

GENERAL SURGERY (MAMC)

Faculty Strength

Director Professor : 2

Professor : 6

Associate Professor : 3

Assistant Professor : 1

Conference Organized:

a) Surgery Update 2019

- Organizing Chairman - Dir. Prof. Pawanindra Lal (HOD, Surgery, MAMC)
- Organizing Secretary: Dr Rajdeep Singh
- Jt Organising Sec: Dr Anurag Mishra, Dr Lovenish Bains

b) Dr Anurag Mishra organised MASHAAL 2.0, workshop for leadership for healthcare professionals at Anandwan, Maharashtra from 14- 18th August 2019

Publications

1. Kazim Z, Wahabi K, Perwez A, Lal P, Rizvi MA. PTEN Genetic and Epigenetic Alterations Define Distinct Subgroups in North Indian Breast Cancer Patients. Asian Pacific journal of cancer prevention: APJCP. 2019;20(1):269.
2. Padu G, Lal P, Vindal A. Comparison of Modified Atlanta Classification with Modified CT Severity Index in Acute Gallstone Pancreatitis. MAMC J Med Sci 2019; 5:63-8
3. Establishing core outcome sets for gastrointestinal recovery in studies of postoperative ileus and small bowel obstruction: protocol for a nested methodological study*** and on behalf of the Tripartite Gastrointestinal Recovery Group. SJ Chapman, Anurag Mishra et al. Colorectal Diseases, Nov 2019
4. Bains L, Lal P, Vindal A, Singh M. Giant villous adenoma of rectum- what is the malignant potential and what is the optimal treatment? A case and review of literature. World J Surg Oncol. 2019 Jun 25;17(1):109. doi: 10.1186/s12957-019-1650-4.
5. Chandhirasekar B, Neogi S, Vats M, Pandey V. Gigantic kidney tumour presenting with weight gain. Int Surg J. 2019 Nov;6(11):4181-4183
6. Agarwal M, Vats M, Neogi S, Singhal PM, Mandal S. Pseudopapillary Tumour of the Pancreas in an Adult Female. International Journal of Anatomy, Radiology and Surgery. 2019; Apr, Vol-8(2): SC01-SC03
7. Singhal PM, Vats M, Neogi S, et al. Asymptomatic gossypiboma with complete intramural migration and ileoileal fistula. BMJ Case Rep 2019;12:e228587. doi:10.1136/bcr-2018- 228587
8. Balaji C, Neogi S, Ramasamy S, Vats M. Comparison of interrupted-X technique closure versus conventional continuous closure of rectus sheath- a randomized controlled study. Int Surg J. 2019;6:
9. Chandhirasekar B, Neogi S. Right iliac fossa lump: a diagnostic surprise. Int Surg J 2019;6:3006-8.
10. Udipi VR, Neogi S, Garg A. Comparison of the role of ultrasound guided transhepatic aspiration of gallbladder versus conservative management of acute calculous cholecystitis. Int Surg J 2020;7:189-93.

11. Role of flap fixation during modified radical mastectomy in locally advanced breast carcinoma patients- a randomised control study R.T. Raghavendra, Neogi S, KanhaiyaK K , Udupi VR , Lohith P. accepted article 2019
12. International Surgery Journal Maranna H et al. Int Surg J. 2019 Oct;6 (<http://www.ijsurgery.com> A large ureteric calculus: is there a role for open surgery in the modern era? Haraesh Maranna*, Tariq Hameed, Pawan Lal, Case Report.
13. Kori R, Bains L, Lal P, Gupta S. Zinner syndrome mimicking bladder outlet obstruction managed with aspiration. Urol Ann. 2019 Oct-Dec;11(4):449-452. doi: 10.4103/UA.UA_152_18. PubMed PMID: 31649472; PubMed Central PMCID: PMC6798291
14. Bains L, Chand T, Lal P, Gautam KK, Beg MY, Kumar P. Isolated primary cold abscess of the sternum: a case report. J Med Case Rep. 2019 Aug 25;13(1):267. doi: 10.1186/s13256-019-2210-9. PubMed PMID: 31445516; PubMed Central PMCID: PMC6708553.
15. Lal P, Bains L, Sawant G, Saini R, Mandal S. Giant filarial retroperitoneal cyst: a diagnostic dilemma. Trop Med Health. 2019 Jun 13;47:37. doi: 10.1186/s41182-019-0164-7. eCollection 2019. PubMed PMID: 31223269; PubMed Central PMCID: PMC6567645.
16. Bains Lovenish, Lal Pawan, Mishra Anurag, Gupta Amit, Gautam Kamal Kishore, Kaur Daljit. Abdominal Compartment Syndrome: A Comprehensive Pathophysiological Review. MAMC J Med Sci. 2019;5:47-56.
17. Bains L, Gupta A, Kori R, Kumar V, Kaur D. Transanal high pressure barotrauma causing colorectal injuries: a case series. J Med Case Rep. 2019 May 7;13(1):133. doi: 10.1186/s13256-019-2067-y.
18. Agarwal R, Sinha D, Tomar R, Mandal S, Bains L, Jain S. Primary malignant peripheral nerve sheath tumor of the breast. Breast J. 2019;25:742–745. doi: 10.1111/tbj.13315.
19. Dr lovenish Bains featured in “Checklist to cut chances of errors during surgery” Times of India. New Delhi Edition. Sep 18, 2019. <https://timesofindia.indiatimes.com/city/delhi/checklist-to-cut-chances-of-errors-during-surgery/articleshow/71175862.cms>
20. Bhatia R, Hameed T, Lal P, Bains L, Sawant G, Maranna H. (2019) Evaluation of Outcome of Ureteroscopic Pneumatic Lithotripsy in Single Lower Ureteric Calculus and Its Association with CT Parameters. Open Journal of Urology, 9, 153-161. doi: 10.4236/oju.2019.910018.
21. Bains L, Bhatia S, Kaushik R, Jain SK, Singh CB, Mandal S, Kaur D. Pre-sternal thyroid swellings: a case of rare aberrant site recurrence and review of literature. Thyroid Res. 2019 Nov 21;12:12. doi: 10.1186/s13044-019-0073-1. eCollection 2019.
22. Dr Deepak Ghuliani: A.Perforated isolated jejunal diverticulum: a rare cause of acute abdomen in International Surgery journal.
23. Ghuliani D, Puttaswamy R, Sahni K, Tomar R. Incidental isolated renal mucormycosis in immunocompetent patient : a rare and atypical presentation. International Surgery Journal.2020 Mar 26; 7(4):1292-5
25. Singh M, Ghuliani D, Sachan V, Rajshekhar P. A rare case of acquired abdominal intercostal hernia managed laparoscopically. Int. J of scientific research.2020 Aug:9(8)
26. Lohith P, RK Jindal, Ghuliani D, Rajshekhar P. The anatomical site of perforation peritonitis and their microbiological profile: A cross sectional study. International Surgery Journal. April 2020;7(4): 1251-7

27. Lohith P, Rajshekhar P, Deepak Ghuliani, Ravindra K Saran. Groove pancreatitis masquerading as carcinoma pancreas: A diagnostic dilemma. International J of scientific Research.2020;9(3):75-6
28. Anurag Mishra: A collaborative approach to re-design of a lift device for Gas Insufflation-Less Laparoscopic Surgery (GILLS) in Low and Middle-Income Countries (LMICS). Conference: GASOC Annual Conference 2019, Global Anaesthesia, Surgery and Obstetric Collaboration, Leeds, United Kingdom. Sep 2019
29. Evaluating the usability of a low-cost laparoscopic simulator for training medical students and surgical trainees in low- and middle-income countries. M Chauhan, N Aruparayil, R Sawhney, C Franco Da Silva, W Bolton, J Burke, A Mishra, D Jayne, P Valdastrì , GASOC Annual Conference, 14th September 2019, Leeds.

Publications of Books / Chapters in Books

- 1) Vindal A, Pathak P. Prosthesis and Fixation Devices for Hernia. In Proceedings of Surgery Update 2019, New Delhi, MAMC, 2019, pp. 262 – 271
- 2) Dr Lovenish Bains: Contributed a chapter “Laparoscopic Access” in National Continuing Medical Education Programme in Surgery- Surgery Update 2019 Proceedings
- 3) Dr Deepak Ghuliani: Chapter on Metastatic breast cancer in proceedings of Surgery update 2019
- 4) Dr Anurag Mishra: Chapter titled “Haemorrhoids: Treatment of choice” in proceedings of Surgery Update 2018, published by department of surgery, MAMC
- 5) Dr Lovekesh Kumar Chapter titled “ Surgical Instruments” in proceedings of Surgery Update 2019, published by department of surgery, MAMC.
- 6) Dr Tirlok Chand: Chapter titled “ Diaphragmatic Hernia” in proceedings of Surgery Update 2019, published by department of surgery, MAMC.

SIGNIFICANT EVENTS (HONOURS TO FACULTY):

Dr Pawanindra Lal

- Dr A Ranganathan Oration APASI 2019
- Best Performance EC Member ASI 2019
- Delhi State Health Award 2019

Dr Anubhav Vindal

- Delivered Dr T P Banerjee Symposium at UPASICON, November 2019, LLR Medical College, Meerut.

Dr Lovenish Bains

- Third prize- Poster at GASOC Annual Conference 2019, Global Anaesthesia, Surgery and Obstetric Collaboration, Carriage works Theatre, Leeds, United Kingdom. 14th Sept 2019 (Co-author)
- Third prize - Poster presentation at ASICON 2019, Bhubaneswar, Odisha. 18th -21st Dec 2019. (Co-author)

- Second prize – Paper (Category: Best Research Paper Presentation) at ASICON 2019, Bhubaneswar, Odisha. 18th -21st Dec 2019: (Co-author)
- Second prize - Poster (Category: Competitive- Session 6) at ASICON 2019, Bhubaneswar, Odisha. 18th -21st Dec 2019.: (Co-author)

CLINICAL WORK:

Elective general surgery operations performed

Total	3165
Laparoscopic	813
Major Elective open	2065
Minor Elective	1100

Endourological operations

Major	220
Minor	1441

Uro Lab

ESWL	420
Uroflowmetry	1781

Procedures done in

Minor OT	8464
Emergency OT	1242
Total Admissions	9489

OPD Cases

New	11328
Follow up	14704
OPD Minor	13619

INSTITUTE OF HUMAN BEHAVIOUR AND ALLIED SCIENCES

Major Activities and Achievements

Our Institute continuously looks for ways to upgrade its facilities for the patients' care and comfort. In the last years, the hospital underwent innovations in few key locations. The Department of Psychiatry continues to be the largest Department of the Institute not only in terms of Clinical Service Delivery; reflected in

numbers of Out-Patient, In-patient, and Emergency visits but also in terms of Statutory obligations like number of Disability Certificates issued. The Department of Psychiatry provides both inpatient and outpatient care through General Psychiatry OPD & Specialty clinics. Total 629042 patients attended the psychiatry OPD in calendar year 2019. Emergency lab performed 70769 biochemistry and haematology investigations on patients admitted in IHBAS during this year. 40488 radiological investigations were performed which included radiographs, ultrasound, Dopplers and CTscans. The Emergency Psychiatry Services at IHBAS is the largest of its kind not only in Delhi but probably in the entire northern India. Department of Neurology provides quality neurology care to patients, aimed to achieve better understanding of neurological disorders through daily outpatient services, indoor services, emergency services and the state-of-the-art neurological investigations.

Honours/Distinctions

Prof. (Dr.) Nimesh G. Desai, Director, IHBAS was conferred with Bombay Psychiatry Society Silver Jubilee Award at Annual National Conference of Indian Psychiatric Society at Kolkata in January, 2020 “A community based follow up study on prevalence of suicidal ideation, and risk factors and protective factors of suicide behavior”

Dr. Vibha received “Psycho Oration Award” of the Indian Association of Clinical Psychologists for contribution in the field during 46th National Annual Conference of Indian Association of Clinical Psychologists (NACIACP) – 2020, held at Chandigarh, during 21st to 23rd March, 2020.

Dr. Naveen Grover received “H.N. Murthy Oration Award” of the Indian Association of Clinical Psychologists for contribution in the field during 46th National Annual Conference of Indian Association of Clinical Psychologists (NACIACP) – 2020, held at Chandigarh, during 21st to 23rd March, 2020.

Dr. Arvind Arya Received “*Medal of Excellence*” particularly for Resuscitation & Life support trainings conducted in previous years in Award Ceremony during Annual Day & Conference of IMAEDB , *IMA MEDICON 2019* on 28th April 2019 at Hotel Leela Ambience, Delhi.

Publications

DEPARTMENT OF PSYCHIATRY

Dr. Deepak Kumar

Malhotra S., and Kumar D. (2020) Family Issues in Child Mental Health. In: Taylor E., Verhulst F., Wong J., Yoshida K., Nikapota A. (eds) Mental Health and Illness of Children and Adolescents. Mental Health and Illness Worldwide. Springer, Singapore.

Dr. Om Prakash

1. Sharma M, Prakash O. Food coming from the hair-a case study. Indian Journal of Psychiatry 2019 (Vol. 61, No. 9, pp. S547-S548).
2. Khatri A, Prakash O. Young onset BPAD complicated by Parkinsons disease in an elderly man: A case report. Indian Journal of Psychiatry 2019 (Vol. 61, No. 9, pp. S530-S530).
3. Kar SK, Prakash O, Arya A, Tripathi A, Das A. Dhat Syndrome: An update of recent research. Indian Journal of Psychiatry 2018 (Vol. 60, No. 5, pp. 32-33).
4. Jain M, Prakash O. Habit Reversal Training for Trichotillomania. Indian Journal of Psychiatry 2018 (Vol. 60, No. 5, pp. 134-134).

DEPARTMENT OF NEUROLOGY

Dr. Suman Kushwaha

1. P Talwar, S Kushwaha, R Gupta, R Agarwal .Systemic immune dyshomeostasis model and pathways in Alzheimer's disease .Frontiers in aging neuroscience 11, 290.
2. P Talwar, R Gupta, S Kushwaha, R Agarwal, L Saso, S Kukreti, R Kukreti . Viral Induced Oxidative and Inflammatory Response in Alzheimer's Disease Pathogenesis with Identification of Potential Drug Candidates: A Systematic Review using Systems ... Current neuropharmacology 17 (4), 352-365, 2019.
3. Gupta A, Kushwaha S. Maternally Inherited Huntington Disease and Paternally Inherited Neurofibromatosis Type-1 In an Individual- A Rare Co-Occurrence. J Neurol Neuromed (2019) 4(2): 1-4.
4. C Rawat, S Kushwaha, AK Srivastava, R Kukreti .Peripheral blood gene expression signatures associated with epilepsy and its etiologic classification.Genomics, 2020.
5. C Rawat, S Kukal, S Kushwaha, R Agarwal, S Sharma, AK Srivastava,... Elevated serum alkaline phosphatase in epilepsy: effect of age and treatment. British Journal of Biomedical Science 77 (1), 44-47.
6. C Rawat, S Kushwaha, S Sharma, AK Srivastava, R Kukreti . Altered plasma prostaglandin E2 levels in epilepsy and in response to antiepileptic drug monotherapy. Prostaglandins, Leukotrienes and Essential Fatty Acids 153, 102056.
7. A Bhardwaj, S Sharma, A Arya, S Kushwaha, M Chaturvedi. Isolated myocysticercosis: rare presentation in quadriceps muscle .International Journal of Basic & Clinical Pharmacology 9 (2), 361.
8. C Rawat, R Kutum, S Kukal, A Srivastava, UR Dahiya, S Kushwaha,... Downregulation of peripheral PTGS2/COX-2 in response to valproate treatment in patients with epilepsy Scientific reports 10 (1), 1-14.
9. S Maheshwari, A Panda, S Kushwaha, A Anthony, M Chaturvedi, .Malignant synovial sarcoma: An unpredictable cause of brachial plexopathy Clinical Neurology and Neurosurgery, 105767.

Dr. Aldrin Anthony

1. Siddharth Maheshwari, Aldrin Anthony, Suman Kushwaha, Sandeep Singh, Rupak Desai, Dyutima Madan.Moyamoya Disease Presenting as Alternating Hemiparesis with relapsing Remittance Hemichorea: An unusual Manifestation: Journal of Pediatric Neurosciences Volume 13/issue4/October-December 2018.
2. Suman Kushwaha, Akhila Kumar Panda, Aldrin Anthony, Sandeep Singh, Dyutima Madan, Siddharth Maheshwari.Spinal Segmental myoclonus presented as unilateral rotating scapula: Annals of Indian Academy of Neurology, January 2019.
3. Siddharth Maheshwari, Akhila Panda, Suman Kushwaha, Aldrin Anthony, Clinical Neurology andNeurosurgery, Malignant Synovial Sarcoma: An Unpredictable Cause of Brachial Plexopathy.
4. Siddharth Maheshwari, Aldrin Anthony, Suman Kushwaha, Priyank Patel, Chirag Gupta, G. Aravind, Monali Chaturvedi.Pseudo myotonic reaction and pseudo ply neuropathy type sensory disturbances in chronic cervical compressive myelopahty; Annals of Movement Disorders,January 2020,volume:3, supplement.

Dr. Siddharth Maheshwari

1. Siddharth Maheshwari, Aldrin Anthony, Suman Kushwaha, Sandeep Singh, Rupak Desai, Dyutima Madan. Moyamoya Disease Presenting as Alternating Hemiparesis with relapsing Remittance Hemichorea: An unusual Manifestation: Journal of Pediatric Neurosciences Volume 13/issue4/October-December 2018.
2. Suman Kushwaha, Akhila Kumar Panda, Aldrin Anthony, Sandeep Singh, Dyutima Madan, Siddharth Maheshwari. Spinal Segmental myoclonus presented as unilateral rotating scapula: Annals of Indian Academy of Neurology, January 2019.
3. Siddharth Maheshwari, Akhila Panda, Suman Kushwaha, Aldrin Anthony, Clinical Neurology and Neurosurgery, Malignant Synovial Sarcoma: An Unpredictable Cause of Brachial Plexopathy.
4. Siddharth Maheshwari, Aldrin Anthony, Suman Kushwaha, Priyank Patel, Chirag Gupta, G. Aravind, Monali Chaturvedi. Pseudo myotonic reaction and pseudo palsy neuropathy type sensory disturbances in chronic cervical compressive myelopathy; Annals of Movement Disorders, January 2020, volume:3, supplement.

DEPARTMENT OF NEUROSURGERY

Dr. Pankaj Kumar Upadhyay

1. Pankaj K Upadhyay, GTiwary: Growing Skull fracture and Diastatic skull fracture in pediatric age group their types and neurosurgical repair with technical note. Clinneuro neurological res int 2018, 1(1):180003.
2. P K Upadhyay, Tiwary G, Kritika U, Kartikeya U: Quality assurance in neurosciences and suitable standards for Neurosurgical operation theatre and procedural rooms. Clinneuro neurological res int j 2018, 1(1):180002.
3. Upadhyay P K, Tiwary G, Yadav A, Kartikeya U, Kritika U, Sharma B, Mir J: Proliferating trichilemmal tumour (Pilar tumour): a case report and Review of literature. Clinneuro neurological res int j 2018, 1(1):180004.

DEPARTMENT OF NEUROANAESTHESIOLOGY

Dr. Arvind Arya

1. Vishal Arora, Shivani Fotedar, Mohd. Zafeer Khan, Gunjan Awasthi, Arvind Arya, Vivek Singh; Research article entitled "A Comparison between I-gel and the LMA classic in spontaneously ventilating Anaesthetised patients" published in indexed journal "Journal Evolution Medicine Dental science"; 2019; 7(08): 1034-1039, DOI:10.14260/jemds/2018/236
2. Arvind Kumar Arya, Hina Samad, Abhishek Garg, Balaji Balasubramanium and Himika Basu, Research article entitled "Hemoptysis: A Postoperative Pulmonary Complication after Neurosurgery Causing Unilateral Lung Collapse" in indexed journal "Journal of Anesthesia & Clinical Research" Arya et al., J Anesth Clin Res 2019, 10:11
3. Arvind Kumar Arya, Hina Samad, Abhishek Garg, Balaji Balasubramanium and Himika Basu 2019. "Hemoptysis: A Postoperative Pulmonary Complication after Neurosurgery Causing Unilateral Lung Collapse" in ISACON- 2019 abstract book.

DEPARTMENT OF NEURORADIOLOGY

Dr. Monali Chaturvedi

1. Pant I, Chaturvedi S, Jha DK, Chaturvedi M. Glioblastoma in a Male with Down's Syndrome: A Case Report. *J Neoplasms* 2019;4(1):1-4.
2. Gupta A, Chaturvedi S, Jha DK, Chaturvedi Monali: Revisiting metastatic central nervous system tumors with unknown primary using clinicopathological findings: A single neurosciences institutional study. *Indian Journal of pathology and microbiology* July-Sept 2019, 62(3),368-374.
3. Ankit Bhardwaj, Sangeeta Sharma, Amit Arya, Suman Kushwaha, Monali Chaturvedi: Isolated Isolated myocysticercosis: rare presentation in quadriceps muscle. *International Journal of Basic and Clinical Pharmacology* Feb 2020, 9 (2), 361-362.
4. Siddharth Maheshwari, Akhila Panda, Suman Kushwaha, Aldrin Anthony, Monali Chaturvedi, Dyutima Madan, Sandeep Singh: Malignant synovial sarcoma: An unpredictable cause of brachial plexopathy: *Clinical Neurology and Neurosurgery* March 2020, 193:105767

Published abstract

Siddharth Maheshwari, Aldrin Anthony, Suman Kushwaha, Priyank Patel, Chirag Gupta, G Aravind, Monali Chaturvedi: Pseudomyotonic reaction and pseudopolyneuropathy type sensory disturbances in chronic cervical compressive myelopathy *Annals of Movement Disorders* January 2020, Volume 3, Supplement.

DEPARTMENT OF CLINICAL PSYCHOLOGY

Dr. Vibha Sharma

Vibha Sharma, Lovika P. Shikhu, Manisha Jha (2019) Sibling rivalry disorder: Issues of diagnosis and management- A case report. *Journal of Indian Association for Child and Adolescent Mental Health*; 15(2):140-153.

DEPARTMENT OF PSYCHIATRIC SOCIAL WORK

Dr. Jahanara M Gajendragad

Lakshmi Narasimhan, S.M.Mehta, Keerthana Ram, B.N. Gangadhar, Jagadisha Thirthahalli, Sivakumar Thanapal, Nimesh Desai, Jahanara M. Gajendragad et al (2019); National Strategy for Inclusive and Community based living for persons with mental health issues. Publisher: The Hans Foundation, India.

DEPARTMENT OF NEUROCHEMISTRY

Dr. Rachna Agarwal

Papers Published:

1. Puja Kumari Jha, Rafat Sultana Ahmed, Rachna Agarwal. Comparative analysis on association of fasting and postprandial dyslipidemia with risk of atherosclerosis in early rheumatoid arthritis *Asian Journal of Medical Sciences*. 2019 May-June; 10(3); 7-12.

2. Puneet Talwar, Suman Kushwaha, Renu Gupta, Rachna Agarwal. Systemic Immune Dyshomeostasis Model and Pathways in Alzheimer's Disease. *Frontiers in Aging & Neurosciences*. 2019; 11(290); doi: 10.3389/fnagi.2019.00290.

Book Published:

- Essentials of Biochemistry for PG NEET & Competitive Medical Examinations, 2019, ACADEMA Publications.

DEPARTMENT OF MICROBIOLOGY

Dr. Rajeev Thakur

Dr. Rajeev Thakur contributed to the development of National Guidelines for HIV VL Laboratory testing. (<http://naco.gov.in/sites/default/files/NationalGuidelinesForHIV-1ViralLoadLaboratoryTestingApril2018%20%282%29.pdf>)

Dr. Renu Gupta

1. P Talwar, R Gupta, S Kushwaha, R Agarwal, L Saso, S Kukreti, R Kukreti . Viral Induced Oxidative and Inflammatory Response in Alzheimer's Disease Pathogenesis with Identification of Potential Drug Candidates: A Systematic Review using Systems .*Current neuropharmacology* 17 (4), 352-365, 2019.
2. Talwar P, Kushwaha S, Gupta R, Agarwal R. Systemic Immune Dyshomeostasis Model and Pathways in Alzheimer's Disease *Front. Aging Neurosci.*, 23 October 2019 | <https://doi.org/10.3389/fnagi.2019.00290>.

Chapters contributed:

- Coronavirus disease 2019 (COVID-19). In *The 5 Minutes Clinical Consult 2020*, by Sangeeta Sharma Frank J. Domino (eds), Wolters Kluwer 1st South Asian Edition, 2020.
- HealthCare Associated Infections. In *The 5 Minutes Clinical Consult 2020*, by Sangeeta Sharma Frank J. Domino (eds), Wolters Kluwer 1st South Asian Edition, 2020.
- Standard Treatment Guidelines: A Manual for Medical Therapeutics. Sangeeta Sharma, GR Sethi (eds), Publisher Delhi Society for Promotion of Rational Use of Drugs and Wolters Kluwer Health, Delhi, 5th edition 2018 (6th edition under print).

Monographs:

- Drafted State Action Plan to Combat Antimicrobial Resistance in Delhi (SAP-CARD). For Directorate General of Health Services, Department of Health and Family Welfare Government of NCT of Delhi, January 2020. <https://ncdc.gov.in/showfile.php?lid=440>.

DEPARTMENT OF PATHOLOGY

Dr. Sujata Chaturvedi

1. Chaturvedi S, Suri V. Pineal tumors: Rare but challenging entity. *Neurol India* 2019;67:503-4.
2. Chaturvedi S. Commentary (tanycytic ependymoma). *J Neurosci Rural Pract* 2019;10:385-6.

3. Gupta A, Chaturvedi S, Jha DK, Chaturvedi Monali. Revisiting metastatic central nervous system tumors with unknown primary using clinicopathological findings: A single neurosciences institutional study. *Indian J Pathol Microbiol* 2019;62(3):368-74.
4. Gupta A, Dwivedi T. Evaluation of Neutrophil-to-lymphocyte ratio (NLR) and Platelet Indices in acute ischemic stroke: An experience of a tertiary care hospital. Accepted in *Journal of Clinical and Experimental Pathology*.
5. Pant I, Chaturvedi S, Tripathi CB, Singh G. Relevance and interrelationship of progesterone receptor, Ki67 and p53 in meningiomas: an immunohistochemical analysis in 273 cases. *Int J of Health & Allied Sciences* 2019; 8: 117-22.
6. Pant I, Chaturvedi S, Jha DK, Chaturvedi M. Glioblastoma in a Male with Down's Syndrome: A Case Report. *J Neoplasm* 2019; Vol.4 No.1:1.
7. Pant I, Chaturvedi S, Singh AK, Singh G, Tiwari S. A rare case of diffuse intracranial aspergillosis masquerading as skull base meningioma in an immunocompetent patient. *Clinical Neuropathol* 2019; 38(1): 23-27.
8. Tiwari S, Pant I, Chaturvedi S, Singh G. Diffuse midline glioma, H3K27M mutant: Awareness leads to identification. *Glioma* 2019;2:55-59.

Chapter In Book

- Gupta A, Mathur SK, Gupta A. Correlation of histological dating and glycogen content by histochemical stain during various phases of menstrual cycle in primary infertility in Book *Current Topics in Medicine and Medical Research* (Accepted, in Press).

DEPARTMENT OF NEUROPSYCHOPHARMACOLOGY

Dr. Sangeeta Sharma

1. Altered plasma prostaglandin E2 levels in epilepsy and in response to antiepileptic drug monotherapy. *Prostaglandins, Leukotrienes and Essential Fatty Acids*. January 2020.
2. Bhardwaj A, Sharma S, Arya A, Kushwaha S, Chaturvedi M. Isolated myocystercosis: rare presentation in quadriceps muscle. *Int J Basic Clin Pharmacol* 2020;9:361-2.
3. C Rawat, S Kukal, S Kushwaha, R Agarwal, S Sharma, AK Srivastava & R Kukreti (2020) Elevated serum alkaline phosphatase in epilepsy: effect of age and treatment, *British Journal of Biomedical Science*, 77:1, 44-47, DOI: 10.1080/0967 4845.2019.1663781.

Books

- Lippincott Illustrated Reviews. Sangeeta Sharma and Thirumurthy Velpandian (eds), Wolters Kluwer 1st South Asian Edition, 2018. *The 5 Minutes Clinical Consult 2020*, by Sangeeta Sharma Frank J. Domino (eds), Wolters Kluwer 1st South Asian Edition, 2020.
- *Pharmacology for Nurses with Pearls in Nursing Practice*. CBS Publishers & Distributors Sangeeta Sharma and Deep Inder (eds), 2020.

DEPARTMENT OF BIOSTATISTICS

Dr. C.B. Tripathi

Pant Ishita, Chatuvedi Sujata, Tripathi CB, Singh Gurubachan. Relevance and Interrelationship of Progesteron Receptor, Ki67, and p53 in Meningiomas: An Immunohistochemical Analysis in 273 Cases. International Journal of Health & Allied Sciences 2019; 8(2): 116-122.

DEPARTMENT OF MEDICAL ANTHROPOLOGY

Dr. Ravinder Singh

1. Singh, Ravinder (2020). Healing Mind: Mental Health, Indigenous Healers, and Traditional Medicine (in press), Journal of Anthropological Survey of India (JASI), GoI.
2. Singh, Ravinder (2019). Indigenous Healing Ways and Intellectual Property Rights: Cross-cultural Perspectives on Effective Integration (in Press) South Asian Anthropology, University of Dhaka, Bangladesh.
3. Singh, Ravinder (2019). Rajasthan: The land of Valour! NAM Today: An International Journal of New Age Mind. Special Issue of Cultural Diversity of India. Vol. LVXL, No.6, July 2019:23-27 (ISSN 23-47-3193).

Research Projects

1. Title: Task Force Project “National strategy for Inclusive and Community Based Living for persons with Mental Health Issues”
Year/Period: 2018-2019 Eight months
Psychiatry: Dr. Nimesh G. Desai, Director, IHBAS
Psychiatric Social work: Dr. Jahanara MG
Funding Agency: Hans Foundation
Amount sanctioned: 33 Lakhs
2. Title: Determination of efficacy of 9 months, 12 months and 18 months of anti-tubercular treatment in patients of tuberculous Meningitis – A randomized controlled non inferiority trial.
Year/Period: 2019 -2022
Funding Agency: Indian Council of Medical Research (ICMR)
Neurology: Dr. Suman Kushwaha
Amount sanctioned: 10 Lakhs
3. Title: Study of Cardio and Encephalographic Correlates of Panic Disorder and effect of Meditation on Clinico-Physiologic profile of individuals: A Randomized Control Trial” at Department of Physiology, AIIMS, Patna, India
Year: 2020-2022

Biostatistics: Dr. C.B.Tripathi

Funding Agency: Department of Science and Technology (DST) - SATYAM, Govt. of India

Amount Sanctioned: 30laks

Seminars Organized

- ❖ 17th August 2019- Seminar on “Mahilaon ki Azadi- Sashaktikaran ki Ore”, on 07th August 2019 at IIC Delhi, jointly organized by IHBAS & Dept. of WCD GNCTD, in partnership with IWPC & Voice it Out (Non Profit Company).
- ❖ 23th Nov - Epilepsy and Infections - Overview of Epilepsy and Infections.
- ❖ 29th and 30th November, 2019 National Seminar on “Mental Health and Social Inclusion of Persons with Intellectual & Developmental Disability”, organized by Institute of Human Behaviour & Allied Sciences (IHBAS) along with “Manovikas Kendra”, a NGO working in the field of Disability at IHBAS.
- ❖ Hands-on Workshop on Immuno-histochemical Techniques for Laboratory Professionals’ on July 29th 2019.
- ❖ Consultation cum Training Workshop for Psychosocial Counsellors of One Stop Centres” on 9th January 2020 at IHBAS, in collaboration with Ministry of WCD.
- ❖ Department of Neuroanaesthesiology & Critical Care at IHBAS organized CME & workshop on Resuscitation on “World Anaesthesia Day” on 17th Oct 2019.

Conferences Organized

IHBAS organized “India-Scotland Mental Health Conclave (ISMHC)” on 29th-30th January, 2020 with partnership of Delhi Psychiatric Society (DPS) and co-sponsorship from the Indian Psychiatric Society (IPS), IPS-North Zone and Association of Clinical Psychologist, Delhi-NCR.

Extension and Outreach Activities

IHBAS as apex neuropsychiatry institute has, since its inception in 1993, strived to expand the patient care services beyond the hospital based care to community. Various kind of community based initiative being under taken by IHBAS:

- ❖ Community Outreach Services under District Mental Health Programme:
- ❖ Community Outreach Initiatives for Homeless Population
- ❖ Community Awareness Activities
- ❖ Liaison with User and Carer Groups
- ❖ Efforts at Communitization for in-patient at IHBAS
- ❖ Mobile Mental Health Unit(MMHU)

Faculty Strength: 26

Financial Allocation and Utilization

(c) Grant sanctioned in Rs.142.96 Cr

(d) Utilized in Rs.128.44Cr

MEDICINE (LHMC)

Major Activities and Achievements

- A. Department of medicine has initiated five bedded HDU facility in department.
- B. Availability of piped oxygen on each bed in medical ward.
- C. Five additional beds adding to the existing adult day care thalassemia centre.

Publications

1. Ajay Kumar Ajmani, Aparna Agrawal, BLN Prasad, Indraneel Basu et al. Efficacy and safety of evolglipitin versus sitagliptin as an add-on therapy in Indian patients with type 2 diabetes mellitus inadequately controlled with metformin: A 24 week randomized, double-blind, non-inferiority, Evolution Indian Study. *Diabetes Research and Clinical Practice* 2019;157:107860.
2. Sahil Bagai, Anupam Prakash, Aparna Agrawal. Profile of community acquired acute kidney injury defined using RIFLE criteria among medical inpatients: A prospective descriptive single centre study. *JAPI* 2019;67:14-18.
4. Gautam G, Jais M, Prakash A, Pemde HK. Emerging Rickettsial Diseases: an analysis of undifferentiated acute febrile illness cases from a tertiary care hospital. *Int J Curr Microbiol App Sci* 2019;8:463-471.
5. Bagai S, Prakash A, Agrawal A. Profile of community-acquired acute kidney injury defined using RIFLE criteria among medical in-patients: a prospective descriptive single centre study. *JAPI* 2019;67:14-18.
6. Nigam A, Sharma S, Varun N, Munjal YP, Prakash A. Comparative analysis of two weeks glycaemic profile of healthy versus mild gestational diabetes pregnant women using flash glucose monitoring system: an observational study. *BJOG* 2019 Jun 30, Epub ahead of print.
7. Solanki B, Prakash A, Rehan HS, Gupta LK. Effect of inhaled corticosteroids on serum periostin levels in adult patients with mild-moderate asthma. *Allergy Asthma Proc* 2019;40:32-34.
8. Acharya AS, Gupta E, Prakash A, Singhal N. Self-reported adherence to medication among patients with type II diabetes mellitus attending a tertiary care hospital of Delhi. *J Assoc Physicians of India* 2019;67:26-9.
9. Goel M, Dhuldhule S, Prakash A, Ghotekar LH. Assessing health-related quality of life in patients with diabetes mellitus at a tertiary care center in central Delhi. *Indian J Community Med* 2019;44:171-2..
10. Kumar L, Prakash A, Gupta SK. Assessment of economic burden and quality of life in stable coronary artery disease patients. *Indian J Med Spec* 2019;10:26-29.
11. Kashyap B, Tiwari U, Prakash A. Hepatitis B virus transmission and health-care workers: prevention, management and awareness towards the disease. *Indian J Med Spec* 2019;10:6-11.

12. Mishita Goel, Sumedh Dhuldhule, Anupam Prakash, L. H. Ghotekar. Assessing health-related quality of life in patients with diabetes mellitus at a Tertiary Care Center in Central Delhi. *IJCM*, 2019; 44:2: 171-172
13. Ashish Behera, Ramesh Aggarwal. Renal manifestations in β -Thalassemia patients. *Urol Nephrol Open Access J*. 2019;7(3):40–43.
14. Tauseef Akhtar, Ramesh Aggarwal, and Sachin Kumar Jain, “Serum Vitamin D Level in Patients with Coronary Artery Disease and Association with Sun Exposure: Experience from a Tertiary Care, Teaching Hospital in India,” *Advances in Medicine*, vol. 2019, Article ID 6823417, 4 pages, 2019.
15. Sonal Prasad, Anshuman Srivastava , Ramesh Aggarwal. Unveiling the Controversies in Gestational Diabetes Mellitus. *EC Diabetes and Metabolic Research* 3.2:2019
16. Pasricha N, Aggarwal R, Jain Sk, Prakash A, Jain A. Insulin resistance in transfusion dependent adult beta thalassemia major subjects with metabolic syndrome. *JAPI* 2020 Vol 68.
17. Yadav A, Aggarwal R, Prakash A, Margrekar SL. Ectopic calcification in multiple myeloma: dystrophic or metatstaic? *ISARCON* 2019.
18. Aggarwal R, Jose R, Jain SK, Sud R, Aggarwal N. Metabolic syndrome: A Harbinger to Binswanger Disease. *ISARCON* 2019.
19. Aggarwal R, Srivastava A. Artificial Intelligence in Diabetes. *Journal of DDF* 2019.
20. Srivastava A, Aggarwal R. Diffuse alveolar haemorrhage due to Plasmodium vivax malaria. *Lung India* 2019.
21. Shubha Laxmi Margekar, Urvashi Khan, Ashok Kumar, Purnima Margekar, Venugopal Margekar. *Gut in Diabetes* . Volume 28, Number 2 | April – June 2019.50-52.
22. Urvashi Khan, Ashok Kumar, Shubha Laxmi Margekar, S Siva Prakash .*Kidney in Diabetes Mellitus*. *Journal of Delhi Diabetic Forum* . Volume 28, Number 3-4 July - December 2019.2-5.
23. S Siva Prakash, Ashok Kumar, Shubha Laxmi Margekar, Urvashi Khan. Hyper Glycaemia in Acute Coronary Syndrome. *Journal of Delhi Diabetic Forum*. Volume 28 • Number 3-4 • July-December, 2019.11-13.
24. Bansal Priya, Gupta A, Meena R. Complicated Plasmodium vivax infection with malarial hepatopathy and splenic abscess. *BLDE Univ J Health Sci* 2019;4:39-4
25. Ceftriaxone-induced hemolytic anemia: A rare case report. Kumar S, Bansal R, Bansal P, Dhamija RK. *Perm J* 2020; 24:19.088.

Books/Monographs published-

1. Clinical Dietary recommendations for Metabolic Syndrome and associated GI conditions. Expert Group on behalf of Nutrition Society of India. Boindala S, Mandalika S, Godhia M, Madan J, Krishnaswamy S, Rohtagi P, Nawathe VA, Sudhakar R, Singh N, Benjamin J, Shetty S, Lathia T, Nanu S, Upadhyay R, Mohan Prasad VG, Bhalla A, Pandit B, Tiwaskar M, Prakash A. *Rezonanz Communications Pvt. Ltd. Mumbai, India* 2019, pp.1-67.
2. *Fever: A practical approach*. Prakash A, Munjal YP, Pangtey GS, eds. 2019.
3. *API Textbook of Medicine*. Kamath S, ed. 11th edn 2019, Associate Editor
4. *Emerging and re-emerging infectious diseases*. Prakash A, ed. API ICP publication 2019.

5. Tobacco and related health hazards. API ICP publication 2019. Prakash A, Talukdar T (eds).
6. Ethics in Clinical Research. API PRF publication 2019. Munjal YP, Prakash A, Pangtey GS, eds.
7. Editors: YP Munjal, Anupam Prakash, Ghan Shyam Pangtey. "Ethics in Clinical Research." An Official Publication of Physicians Research Foundation 2019. ISBN: 978-81-939995-2-3.
8. Munjal YP, Pangtey GS. History of Ethics in Research. In: YP Munjal, Anupam Prakash, Ghan Shyam Pangtey: Edi. Ethics in Clinical Research." An Official Publication of Physicians Research Foundation. N Delhi: PRF/ API Publishers. 2019. p1-10. ISBN:9788193999523
9. Pangtey GS: Associate Editor. API Textbook of Medicine, 11th edition, 2019. Editor in Chief: Sandhya Kamath. CBS publisher. Mumbai.
10. Pangtey GS, Gopal H: Low Back Pain. In: Sandhya Kamath, Editor. API Textbook of Medicine, 11th edition. Mumbai: CBS publisher. 2019. p 494-503
11. Editors: Anupam Prakash, Ghan Shyam Pangtey, YP Munjal. "Fever in The Tropics: A Practical Approach." New Delhi. Evangel Publication. 2019.
12. Pangtey GS, Singh P. Acute Fever Syndrome: Fever with Joint Involvement. In: Prakash A, Munjal YP. Pangtey GS, Editors. Fever in The Tropics: A Practical Approach. New Delhi. Evangel Publication. 2019. p48-58
13. Pangtey GS, Malviya S. Chikungunya Fever. In: Prakash A. Editor. Emerging and Re-emerging Infectious Diseases New Delhi. Evangel Publication. 2019. P59-65. ISBN: 978-81-93999516.
14. Shivraj meena .Taeniasis: emerging and re-emerging infectious disease:ICP 2019,129-133.

Chapters in books-

1. Debasish Chaudhury, Aparna Agrawal. Fever in immunocompromised host. In: Fever in the tropics. A practical approach. Ed. Anupam Prakash, YP Munjal, GS Pangtey. Evangel Publishing, New Delhi, India 2019;101-115.
2. Aparna Agrawal, Deepika Saroha, Brittle diabetes – Management challenges. In: Progress in Medicine 2019. Ed. G.Narsimulu. Jaypee Bros Med Publisher Pvt Ltd, New Delhi 2019, pp 66-69.
3. Aparna Agrawal, Abhishek Kumar. Schistosomiasis. In: Emerging and Reemerging infectious diseases. ICP Monogram. Ed. Anupam Prakash, Evangel Publishing, New Delhi, India 2019;pp 175-180.
4. Amit Kumar Sharma, Aparna Agrawal. Managing hypertension in coronary artery disease. In: Managing hypertension: A physician's perspective. Ed. YP Munjal, Anupam Prakash, GS Pangtey. Evangel Publishing, New Delhi, India 2019;135-142.
5. Upadhyay R, Prakash A, Rajput R, Kashyap M. Type 2 diabetes mellitus originates in liver. In: Chawla R, Jaggi S (eds). RSSDI Diabetes Update 2018. Jaypee Brothers Medical Publishers (P) Ltd., New Delhi, India 2019, pp. 21-24.
6. Prakash A, Aggarwal R. Tropical fevers. In: Maiya M (ed.) Fever from Evidence to Action. Micro Labs Limited, Bengaluru, 2019, pp.71-76.
7. Prakash A, Kashyap M, Gupta GK. Fever of Unknown Origin. In: Prakash A, Munjal YP, Pangtey GS. Fever in the Tropics. A practical approach. 1stedn 2019, pp.94-100.
8. Aggarwal R, Jose R, Prakash A. Fever and Hyperthermia: Patterns and Etiology. In: Prakash A, Munjal YP, Pangtey GS. Fever in the Tropics. A practical approach. 1stedn 2019, pp.22-27.

9. Kashyap B, Gupta N, Prakash A. Approach to Tropical fevers and Laboratory Diagnosis. In: Prakash A, Munjal YP, Pangtey GS. Fever in the Tropics. A practical approach. 1st edn 2019, pp.6-21.
10. Munjal YP, Prakash A. Lifestyle management in Diabetes. In: Kamath SA (ed.) API Textbook of Medicine 11thedn 2019, pp.820-823.
11. Prakash A, Kashyap M, Rajput R. Euthanasia- the law and the present-day pitfalls. In: Pareek KK (ed.) Medicine Update 2019, vol. 29, pp.1336-1338.
12. Prakash A, Prakash N. Emerging and Re-emerging Infectious Diseases: an overview. In: Prakash A (ed). Emerging and Re-emerging Infectious Diseases. Physicians Research Foundation, Association of Physicians of India 2019, Mumbai, India, pp. 3-7.
13. Kashyap B, Prakash A. Laboratory diagnosis of Emerging and Re-emerging Infectious Diseases. In: Prakash A (ed). Emerging and Re-emerging Infectious Diseases. Physicians Research Foundation, Association of Physicians of India 2019, Mumbai, India, pp. 8-12.
14. Prakash A, Raturi R. Tobacco: an overview. In: Prakash A, Talukdar T (eds). Tobacco and related health hazards. Physicians Research Foundation, Association of Physicians of India 2019, Mumbai, India, pp. 1-5.
15. Rajput R, Sood D, Prakash A. Tobacco and male reproductive system. In: Prakash A, Talukdar T (eds). Tobacco and related health hazards. Physicians Research Foundation, Association of Physicians of India 2019, Mumbai, India, pp. 86-90.
16. Kashyap M, Prakash A, Singh KJ. Legislation on Tobacco. In: Prakash A, Talukdar T (eds). Tobacco and related health hazards. Physicians Research Foundation, Association of Physicians of India 2019, Mumbai, India, pp. 119-124.
17. Prakash A, Singh NP, Gupta GK. General Principles of Research Ethics. In: Munjal YP, Prakash A, Pangtey GS (eds). Ethics in Clinical Research. Physicians Research Foundation, Association of Physicians of India 2019, Mumbai, India, pp. 11-16.
18. Prakash A, Rajput R, Kashyap M, Aggarwal R. Insulin Resistance and Metabolic syndrome in elderly. In: Nambiar A (ed). Diabetes in the Elderly. Indian College of Physicians, Association of Physicians of India 2019, Mumbai, India, pp.24-29.
19. Aggarwal R, Meena RK, Prakash A. Managing pain, palliative care and end-of-life care. In: Nambiar A (ed). Diabetes in the Elderly. Indian College of Physicians, Association of Physicians of India 2019, Mumbai, India, pp. 176-180.
20. S K .Jain, Ramesh Aggarwal. Hypopituitarism secondary to traumatic brain injury. In Medicine Update 2019:ed KK Pareek. Chapter 70: 361-365.
21. Prakash A, Rajput R, Kashyap M, Aggarwal R. Insulin Resistance and Metabolic syndrome in elderly. In: Nambiar A (ed). Diabetes in the Elderly. Indian College of Physicians, Association of Physicians of India 2019, Mumbai, India, pp.24-29.
22. Margekar S L, Kumar A, Margekar P. Chronic Fever Syndrome. In: Prakash A, Munjal YP, Pangtey GS. Fever in the Tropics. A practical approach. 1st edn 2019, pp.116-120.
23. Kumar A, Margekar S L, Khan U, Margekar P. Neurological Manifestations in Dengue. In:Pareek KK (ed.) Medicine Update 2019, vol. 2, pp.616-619.

24. Margekar S L, Kumar A, Margekar P. Soil Transmitted Helminthiasis. In: Prakash A (ed). Emerging and Re-emerging Infectious Diseases. Physicians Research Foundation, Association of Physicians of India 2019, Mumbai, India, pp.124-128.
25. Rajput R, Sud R, Margekar S L .Ethical Principles Applicable to Epidemiological Research. In: Munjal YP, Prakash A, Pangtey GS (eds). Ethics in Clinical Research. Physicians Research Foundation, Association of Physicians of India 2019, Mumbai, India, pp. 36-42.
26. Margekar S L, Kumar A, Margekar V G, Tlau V. Cognitive dysfunction and mood disorder in elderly dm patients. In: Nambiar A (ed). Diabetes in the Elderly. Indian College of Physicians, Association of Physicians of India 2019, Mumbai, India, pp.115-119.
27. Bansal, Priya, and Saha, PR (2019). ‘Scabies’, in Prakash, Anupam (ed.) *Emerging and Re-emerging Infectious Diseases*. New Delhi: Evangel, pp. 140-5
28. Munjal YP, Prakash A. (2020). Euthanasia in critical care- Current perspective in India. In: Nadagouda VG (ed). Emergencies in Medicine. Indian College of Physicians, Academic wing of Association of Physicians of India, 1st edn, pp. 496-500.
29. Munjal YP, Rajput R, Arora A, Prakash A. (2020). Diabetes and Heart Failure. In: Arulraj S (ed.). *Medicine Update 2020*, Association of Physicians of India, Jaypee Brothers Medical Publishers (P) Ltd. New Delhi, India, pp. 424-427.
30. Prakash A. (2019). WHO Emphasis on Emerging and Re-emerging Infectious Diseases. In: Arulraj S (ed.). *Medicine Update 2020*, Association of Physicians of India, Jaypee Brothers Medical Publishers (P) Ltd. New Delhi, India, pp. 841-843.
31. Upadhyay R, Prakash A, Rajput R, Kashyap M. (2020). Type 2 diabetes mellitus originates in liver. In: Chawla R, Jaggi S (eds). *RSSDI Diabetes Update 2018*. Jaypee Brothers Medical Publishers (P) Ltd., New Delhi, India, pp. 21-24.

Journals

1. Dr anupam Prakash, editor in chief of Indian journal of medical specialities.
2. Dr. Ghan Shyam Pangtey is Member of Editorial Board of Journal of Association of Physicians of India.
3. Dr Vivek Suman -Editor of Journal of Atherosclerosis and Metabolic Research
4. Dr Shivraj meena -Member of editorial board of Journal of Medical Science and clinical Research.

Research Projects

Following Multi centric International Clinical Trials were conducted with LHMC as one of the centres-

Name of Investigators	Projects In charge	Title of the Projects Scheme	Name of the Funding Agency	Budget in Rs.
Research Projects with funding				
Dr. Sachin K Jain Dr. Anupam Prakash Dr. Ramesh Aggarwal	Dr. Sachin K Jain	LIRA-ADD2SGLT2i – Liraglutide versus placebo as add-on to SGLT2 inhibitors	Novo Nordisk	

Dr. Ghan Shyam Pangtey				
Dr. Aparna Agrawal Dr. Debasish Chaudhury Dr. Anupam Prakash	Dr. Aparna Agrawal	ALK02-EVO1: A multicenter , randomized, double blind, double dummy study comparing the efficacy and safety of Evogliptin with sitagliptin in patients with type 2 diabetes mellitus receiving background therapy with Metformin	ALKEM	
Dr. Anupam Prakash Dr. Sachin K Jain Dr. Ghan Shyam Pangtey Dr. Ramesh Aggarwal Dr. Shubha Laxmi Margekar	Dr. Anupam Prakash	PIONEER6- Cardiovascular safety outcomes trial with oral semaglutide (International)	Novo Nordisk	
Dr. Anupam Prakash Dr. Sachin K Jain Dr. Ghan Shyam Pangtey Dr. Ramesh Aggarwal Dr. Shubha Laxmi Margekar	Dr. Anupam Prakash	SUSTAIN11	Novo Nordisk	
Dr. Anupam Prakash Dr. Ghan Shyam Pangtey Dr. Ritika Sud Dr. Ramesh Aggarwal Dr. Shubha Laxmi Margekar	Dr. Anupam Prakash	USVCAPS	USV	
Dr. Ghan Shyam Pangtey Dr. Anupam Prakash	Dr. Ghan Shyam Pangtey	Efficacy in controlling glycaemia with Victoza® (liraglutide) as add-on to metformin vs.OADs as add-on to metformin after up to 104 weeks of treatment in subjects with type 2 diabetes inadequately controlled with metformin monotherapy and treated in a primary care setting (Liraprime)	Novo Nordisk	20 lakhs
Dr. Shubha Laxmi Margekar Dr. Anupam Prakash	Dr. Shubha Laxmi Margekar	MJBPL-BHI01: A prospective, multi-center, randomized, double-blind, parallel-group, active-controlled, Phase III study to compare the efficacy, safety and immunogenicity of premixed Human Insulin Biphasic(30% human insulin soluble injection and 70% human insulin isophane	MJ Biopharma Ltd.	

		suspension) injectable suspension of MJ Biopharm Private Limited with Huminsulin 30/70 in treatment of patients diagnosed with type 2 diabetes mellitus		
Dr Aparna Agrawal, Dr Pikee Saxena, Dr Manju Puri	Dr Sanjay Maroo	A Double-blind, Randomized, Adaptive Design, Controlled Clinical Trial to Evaluate the Efficacy and Safety of Saroglitazar 2 mg and 4 mg Tablets Versus Placebo for Treating Women with Polycystic Ovary Syndrome (PCOS)	Zydus Cadila Healthcare Ltd	

Seminar /Conferences Organized

S.No	Faculty Member	Organizer(s)	Name, Venue & Date
1.	Dr. Anupam Prakash Dr. Shubha Laxmi Margekar	CNE, LHMC	ECG Workshop at LHNC on April 30, 2019 and May 24, 2019
2.	Dr. Anupam Prakash (Convenor) Dr. Ritika Sud (Co-Convenor) Dr. Shubha Laxmi Margekar (Co-Convenor) All Department Faculty	Department of Medicine, LHMC	Thalassemia Day CME at SJ Auditorium, LHMC, New Delhi held on May 4, 2019
3.	All Department Faculty	Department of Medicine, LHMC	Thalassemia Interaction programme with patients, in Dept of Medicine at SSKH, New Delhi on May 8, 2019
4.	All Department Faculty	API-DSC	CME at Hotel Royal Plaza, New Delhi on July 28, 2019
5.	All Department Faculty	Department of Medicine, LHMC & Delhi Diabetic Forum	CME on Diabetes at Swarna Jayanti Auditorium, LHMC, New Delhi on August 31, 2019
6.	All Department Faculty	Department of Medicine, LHMC	International Guest Speaker programme at CME Hall, SJ Auditorium, LHMC on Nov 28, 2019
7.	Dr Anil Gurtoo(chairman) Dr Aparna Agarwal (Co-chairman) Dr Vivek Suman (Organizing Secretary)	Department of Medicine, LHMC	CME on HIV at Convocation Hall, LHMC on Nov. 30, 2019

	All Department Faculty		
8.	Dr. Anupam Prakash	API-DSC	API-DSC Annual CME at Hotel Ashok, New Delhi on Dec. 14-15, 2019
9.	All Department Faculty	Department of Medicine, LHMC	International Guest Speaker programme at CME Hall, SJ Auditorium, LHMC on Dec. 19, 2019
10.	Dr Vivek Suman Dr Amit Kumar Sharma	UPDA, Gautam Budha Nagar Branch	Dialogues in Diabetes, Hotel Le Meridien, New Delhi on 14 th July, 2019
11.	Dr Vivek Suman Dr Amit Kumar Sharma	IACM	IACMCON 2019 at Gautam Buddha University, Greater NOIDA on 15 to 17 th November 2019
12.	Dr Anil Gurtoo Dr Anupam Prakash Dr Ritika Sud Dr Vivek Suman	ISAR	ISARCON at Swarna Jayanti Auditorium, LHMC, New Delhi on Nov. 8-10, 2019
13.	Dr Ghan Shyam Pangtey (Organizing Secretary)	Delhi Rheumatology Association.	Mid Term CME 2019: Osteoporosis; Holiday Inn, Aerocity, 25 Aug 2019.
14.	Dr Ghan Shyam Pangtey (Organizing Secretary).	Dept. of Medicine and Dept of Emergency Medicine, JPNA Trauma Center, New Delhi	EM SONO (Emergency and Point of Care USG) Workshop, LHMC Auditorium, 14-15 sept 2019
15.	Dr Ghan Shyam Pangtey (Organizing Secretary)	Dept. of Medicine and Delhi Rheumatology Association	Walkathon: Walk for Arthritis Awareness; LHMC, 19/12/ 2020
16.	Dr Anil Gurtoo Dr Anupam Prakash Dr Ghan Shyam Pangtey (Organizing Secretary) And all faculty members	Dept of Medicine	DRA 2020, Swarna Jayanti Auditorium, LHMC, New Delhi on Feb 15-16, 2020
17.	All Department Faculty & Residents	Department of Medicine, LHMC & Delhi Diabetic Forum	Patient Education Programme at Dept of Medicine on occasion of World Diabetes Day 2019 at LHMC New Delhi on Nov. 14, 2019

National and International Conferences / Symposia / Seminars / Workshops / CMEs attended by the Faculty Members

S.No	Name & designation of the Participant	Role/ Topic	Organizer	Name of the Conference, Venue & Date
International Conferences				
1	Dr Anil Gurtoo Dr Aparna Agarwal Dr Anupam Prakash Dr Ramesh Aggarwal Dr Ritika Sud Dr Vivek Suman	Member Organizing Committee And Chairpersons	ISAR	ISARCON at Swarna Jayanti Auditorium, LHMC, New Delhi on Nov. 8-10, 2019
2	Dr Madhur Yadav	Speaker	LAI Conference	LAICON at Radisson Blu Hotel. Dwarka 16-18 August 2019

Faculty Strength

Director Professor: 8
 Professor: 8
 Associate Professor : 5
 Assistant Professor : 6

MEDICINE (UCMS)

Major Activities and Achievements

The Department of Medicine at UCMS-GTBH has been providing patient care services to vast number of patients through its general and special OPDs along with dedicated wards, coronary care unit, dialysis unit, antiretroviral treatment center and round the clock emergency services. Both undergraduates and postgraduates continue to perform very well for MD and DM examinations in major institutes including AIIMS, PGI, KGMU, GB Pant Hospital, and SGPGIMS to name a few. The faculty has been contributing in various academic and administrative and research platforms in addition to teaching and patient care. Specialized care for elderly and hepatitis positive patients is being upgraded in a major way as per initiatives by state government. A lot of effort is invested in doing quality MD thesis work and residents are also marking their presence in national conferences. Faculty is also involved in core curriculum committees, medical education unit and implementation of new competency based medical curriculum for undergraduates. Despite constraints and logistics, the department endeavors to provide the opportunity for professional growth to both residents and faculty by facilitating teaching and training.

Honours/Distinctions

Dr Amitesh agarwal

- Awarded 'LHMC Oration' of Indian Society for Atherosclerosis Research in 2019.
- Awarded 'BC Bansal Oration' of Association of Physicians of India, Noida Chapter in 2019.
- Awarded Fellowship of Indian Society of Hypertension in 2019.

- Awarded Fellowship of Geriatric Society of India in 2019.

Publications

1. Aggarwal, A. Shalimar. Goel, A. (2020). Granulomatous tubercular hepatitis presenting as secondary hemophagocyticlymphohistiocytosis (HLH): a case report and systematic review of literature. *J ClinExpHepat*, (Accepted)
2. Aggarwal, A. Kumar, A. Sharma, R. Goel, A. Kar, R. Avasthi, R. Gupta, AK. (2020). Physical frailty phenotype and depression are associated with more severe disease in older subjects presenting with acute coronary syndrome. *Nigerian J ClinPract*, (Accepted)
3. Balasuriya, A. Goel, A. Shiitake Flagellate Dermatitis (Toxicoderma): a case report. *Nat Med J India*.
4. Bansal, K. Goel, A. Agarwal, A. (2020). Performance of older persons on individual items of Mini Mental Status Examination. *J IndAcadGer*, 16, 17-21.
5. Goel, A. Bansal, K. (2020). Situation Analysis report of training and education in South East Asian countries in Gerontology and Geriatric Medicine. *J IndAcadGer*, 16, 22-26.
6. Goyal, Y. Saini, C. Khanna, S. Nagpal, S. Goel, A. (2019) Tuberculosis in Diabetes Mellitus – a systematic review. *J Intern Med India*, 12 (3), 56-61.
7. Jhamb, Rajat. Singh, Bhupindar. Kar, Rajshree. Gogoi, Priyanka. Madhu, SV. (2019). A comparative study of serum vascular endothelial growth factor in patients with tuberculous meningitis with and without stroke. *Med Clin Arch*, doi: 10.15761/MCA.1000164.
8. Jhamb, Rajat. Gaurav, AK. Kar, Rajarshi. Gogoi, Priyanka. Avasthi, Rajnish. (2019). A Comparative Study of Serum Matrix Metalloproteinase-9 in Tuberculous Meningitis With and Without Stroke. *International Journal of Healthcare and Medical Sciences, Academic Research Publishing Group*, 5(8), 37-41.
9. Jhamb, Rajat. Parasher, Anant. Baweja, Ashish. Vaingankar, Abhishek. (2019) Pancreatic Encephalopathy-A case report. *International Journal of Scientific Research*, 8(8), 20-21.
10. Juneja, Abhishek. Jhamb, Rajat. Madhu, SV. (2019). The Relationship between Serum 25(OH) Vitamin D and Insulin Resistance in Prediabetes. *Journal, Indian academy of clinical medicine*, 20(2), 110-14.
11. Kiranmala, K. Aslam, M. Mishra, BK. Jhamb, R. Madhu SV. (2019). Association of postprandial triglyceride responses with insulin resistance among rotational night shift healthcare workers. *Experimental Physiology. Exp physiol*, 104(6), 819-825.
12. Koolwal, A. Swadia, A. Goel, A. (2020). Cognitive impairment and frailty. *J IndAcadGer*, 16, 27-31.
13. Lahan, S. Goel, A. (2019). Physical assaults on doctors: arrival of perilous medicine. *Italian J Med*, 13, 135-136.
14. Madhu, S V. Bhardwaj, S. Jhamb, R. Srivastava, H. Sharma, S. Raizada, N. (2019) Prediction of gestational diabetes from first trimester serum adiponectin levels in Indian Women. *Indian J Endocr Metab*. 23, 536-539.
15. Verma, AK. Alam, N. Narang, S. Maroof, KA. Sahu, PK. (2019). Effect of inhaled tiotropium on intraocular pressure in patients of chronic obstructive pulmonary disease. *International journal of Scientific research*, 8(10).

16. Verma, AK. Alam, N. Narang, S. Maroof, KA. (2020). Lung Function and Health Status in Patients of Chronic Obstructive Pulmonary Disease on Treatment with Tiotropium. *International Scientific study*, 8(1), 55-61.
- 17 Vidushi, A. Swadia, A. Pruthi S, Goel A. (2020). Prevalence and identification of elder abuse in India: current scenario and way forward. *J Ind Acad Ger*, 16, 32-37.

Journals

1. 2.Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board- 2

Research Projects

1. Intra -Mural Research Grant (IMRG), 2019-2020, Impact of HIV associated stigma on sleep quality in adult PLWHIV, (25000)
2. Intra -Mural Research Grant (IMRG), 2019-2020, verification of self-limited smoking status by urine Urine Cotinine levels in patients of COPD, (25000)
3. Intra -Mural Research Grant (IMRG), 2019-2020, Effect of smartphone application-based health care delivery intervention among older users and their care givers, (25000.)

Conferences organized

Workshop on Biomedical Statistics, January 13-14, 2020, Research Wing of the Indian Academy of Geriatrics and the Association of Gerontology (India) and supported by Stata Inc, USA and Johns Hopkins Bloomberg School of Public Health, USA held at India International Center, New Delhi.

Seminar Conference presentations (National/International)

1. Goel A. Ethical traps in publication. Thesis writing workshop, University College of Medical Sciences, Delhi. February 19, 2020.
2. Goel A. Correlation and Regression analysis. Certificate Workshop on Biomedical statistics, Association of Gerontology (India), India International Center, New Delhi. January 13-14, 2020
3. Goel A. Training program of Ethics Committee Members on Good Clinical Practices, Swami Dayanand Hospital, Delhi. December 28, 2019
4. Goel A, Vaingankar A, Vishwanathan V. Experimental therapies in management of Alzheimer Disease. 17th Annual Conference of the Indian Academy of Geriatrics (GERICON 2019), Christian Medical College, Vellore. December 6-7, 2019
5. Goel A, Vaingankar A, Vishwanathan V. Novel therapies in management of Alzheimer Disease. Disorders of the brain: Molecules, models and clinical practice, NEUROCON 2019, Maharishi Markandeshwar Institute of Medical Sciences and Research, Mullana, Haryana. November 18, 2019
6. Goel Ashish. Ethical issues in clinical trials. Ethics and Biomedical Research Series 1.0, Maulana Azad Institute of Dental Sciences, MAMC, New Delhi. November 6, 2019 (Resource person)
7. Goel A, Pruthi S. Doctors Do Cry. Association of Rohtak Medical Students Conference (ARMSCON), PGIMS, Rohtak. October 11, 2019
8. Goel A. Swadia A, Balasuria A. Geriatrics and Research in India and Sri Lanka. 5th Geriatric Innovation Forum, National Center for Geriatrics and Gerontology, Hotel Castle Plaza, Nagoya, Japan. January 18, 2020

9. Goel A, Inamadar S. New Age technology in management of Non-Communicable diseases, Aging with Quality and Dignity, Jakarta, Indonesia. July 19-21, 2019.
10. Goel A, Vaingankar A, Vishwanathan V. Management of Osteoporosis in older adults with multiple comorbidities. At the Crossroads: Ensuring Holistic Care for silver years. Sri Lankan Association of Geriatric Medicine, Colombo, Sri Lanka. November 30-December 1, 2019
11. Goel Ashish, Inamadar S. New age technology and the future of Geriatric Medicine Practice. 11th International Association of Gerontology and Geriatrics Asia/Oceania Regional Congress (IAGG 2019), Taipei, Taiwan. October 23-27, 2019

Faculty Strength

Professor : 6
 Associate Professor: 3
 Assistant Professor: 1

MICROBIOLOGY (GIPMER)

Major activities and achievements:The department of microbiology is involved in various investigative, teaching and research activities. Total number of tests performed in the year 2019 – march 2020 were 504485. The department is actively involved in monitoring Hospital infection control and biomedical waste. In May 2019, two Post Graduate seats in MD Microbiology were approved and sanctioned to the department by the Medical Council of India. One MD (Microbiology) thesis is ongoing under Dr Archana Thakur and Dr poonam Loomba and one PhD Thesis got completed in 2019 under Dr Bibhabati Mishra.

Honours/distinction –

- a. Dr Archana Thakur-
 - i. NABH assessor
 - ii. NABL Technical assessor, Lead assessor and expert member
 - iii. MCI Inspector
 - iv. Technical Expert for Procurement of Microbiology kits for NACO, at Rites
 - v. Expert for Hospital Biomedical waste management and infection control Sectional Committee MHD21 of Bureau of Indian Standards.
- b. Dr Bibhabati Mishra-
 - i. Evaluation of microbiology MD thesis of AIIMS New Dehi
 - ii. Evaluation of microbiology MD thesis of AIIMS Rishikesh.
 - iii. MD thesis evaluator at Sri guru govind singh university
 - iv. PhD thesis evaluator in microbiology at Jaipur National University.
 - v. External examiner for II MBBS at Dr BSA Medical college, New Delhi on 2/1/19.

- vi. Question paper setter for DNB(entry level and exit level) microbiology at National board of examiners.
 - vii. Question paper setter II MBBS (suppl) at AIIMS New Delhi.
 - viii. External examiner for II MBBS (suppl) at Dr BSA Medical College NEW DELHI on 26/3/19.
 - ix. Selection committee expert for assistant professor in VMMC and safdarjung hospital on 29/3/19.
- c. Dr Poonam Sood Loomba-
- i. Awarded FAIMER fellowship in medical education
 - ii. Resource person for 'hands on training workshop on WHONET in Krishna Institute of medical sciences, Karad.
 - iii. External examiner for II MBBS (suppl) at Faridkot on 29/5/19.
 - iv. Faculty speaker in CME cum workshop on 'CBME: Concepts and application' on 29-30th April 2019.
 - v. Resource person and speaker at 51st mini workshop for SR at MAMC on medical education technologies.
 - vi. MCI observer for CISP workshop at Kalpana Chawla Medical College 9-11th May 2019.
 - vii. MCI observer for RBCW at Santosh Medical College 22-26th July 2019.
 - viii. External examiner for II MBBS (SUPPL) at VMMC on 26/3/19.
 - ix. PG Practical examiner at SIMS Hapur on 11-12 dec 2019.
 - x. Panelist 'BMW RULES: challenges in implementation' at 43rd MICROCON, Mumbai.
 - xi. Poster judge at MICROCON, Mumbai.

Representation on expert committee/bodies-

- d. Dr Archana Thakur-
- i. Technical Expert for Procurement of Microbiology kits for NACO, at Rites
 - ii. Expert for Hospital Biomedical waste management and infection control Sectional Committee MHD21 of Bureau of Indian Standards.
- e. Dr Poonam Sood Loomba-
- i. Executive member IAMM
 - ii. Resource person for four MCI Revised basic course workshops in Department of Medical Education, MAMC every quarter
 - iii. Resource person for three capsule courses for Senior Residents in Department of Medical Education in MAMC.
 - iv. Resource person for NTTC workshop in MAMC

- v. Faculty, Medical Education Department, MAMC.
- vi. Member hospital equipment maintenance committee.
- vii. Chairperson, Kitchen and cafeteria committee
- viii. External expert for SR Interview at BSAMCH, Delhi
- ix. MCI Observer for Medical Education/CISP program in various medical colleges
- x. Member physical verification committee of GIPMER
- xi. External expert for procurement of instruments for sport center VMMC.
- xii. Member technical committee for state action plan on AMC.
- xiii. Member technical evaluation committee for lab services of mohalla clinics.
- xiv. Expert technical committee for PCR at Janakpuri superspeciality hospital.
- xv. Expert in the selection committee of Janak puri super speciality hospital for the post of Assist prof and specialist Microbiology in December 2019.
- xvi. Member advisory committee NML at Nirman bhavan.

Publications –

Chandak RJ, Mishra B, Loomba PS, Sharma A, Bajaj A, Thakur A. 2018 Point prevalence study for antifungal usage in ICU of a tertiary care hospital-A pilot study. *Ind J Basic and Applied Med Research* ;8(1):336-345

Sharma A, Mishra B, Dogra V, Thakur A and Loomba PS. 2019 Knowledge on handling of HIV and HBV patients and occupational post-exposure prophylaxis against HIV and HBV: effectiveness of training program for nurses. *J of nursing and care*;8(1): 1-4.

Bajaj A, Mishra B, Loomba PS, Thakur A, Sharma A, Rathod P et al. 2019 Prevalence of Gram negative septicemia in a tertiary care center. *J of med sciences and health*;5(1):36-41.

Rathod PG, Mishra B, Thakur A, Sharma A, Loomba PS, Bajaj A et al. 2019 Intestinal parasitic infection in patients attending a tertiary care center. *Tropical J Pathol Micro*; 5(7):412-418.

Sharma A, Thakur A, Mishra B and Loomba PS. 2019 Bacteriological profile of environmental surface samples of high risk areas: significance in the Indian setting. *Indian J health sciences care*;6(2):54-58.

Tiwari G, Mishra B, Dogra V and Arora DR. 2019 Role of biofilm production in bacteria isolate from device related and non-device related infection in a tertiary care hospital. *Int J of curr microbial and applied sciences*;8(1):2454-2464.

Bajaj A, Thakur A, Mishra B, Loomba PS, Dogra V, Chandak RJ et al. Multidrug resistant bacteria causing biliary tract infection . 2019 A tertiary care center study from north India. *Saudi J of pathology and Microbiology*;4(3):245-249.

Conference/seminars presentations –

- a. Poster presented on ‘ MRSA as uropathogen: IPD Vs OPD’ st IAMM Delhi chapter on 6/4/19- Ashna Bhasin, Abha Sharma, B Mishra, A Thakur, Poonam Loomba, A bajaj and Madhusmita Das.
 - b. Poster presented on ‘ Tigecycline susceptibility of respiratory tract isolates in tertiary care center’- A bajaj, B Mishra, A Thakur, Poonam Loomba, Abha Sharma, Madhusmita Das and Ashna Bhasin.
 - c. Poster on ‘ keratomycosis caused by scedosporium’ at IAMM Delhi chapter 20/7/19 - A bajaj, B Mishra, P loomba, A Sharma.
 - d. Poster on ‘ rising trend of serratia species in ICU of a tertiary care hospital’ at MICRO-D-CON 2019 on 2/11/19- Madhusmita Das, Poonam Loomba, A Thakur, B Mishra, A Sharma, A bajaj, Prachla, Ashna.
 - e. Poster presented on ‘demonstration of amoebic trophozoites in colonic biopsy:a diagnostic stewardship initiative for amoebiasis’ on 2/11/19 – A bajaj, Abha Sharma, B Mishra, A thakur, Poonam Loomba, Prachla, Madhusmita das.
 - f. Poster on ‘ comparative evaluation of VITEK 2 and rapid polymyxins nordmann-poirel test for colistin resistance in E coli and Klebsiella pneumoniae’ at IHC, MICRO-D-CON 2019 on 2/11/19. – Ashna Bhasin, Poonam Loomba, A thakur, B Mishra, A Sharma, A bajaj, Prachla and Madhusmita.
2. Other inter-institutional collaboration- One PhD Thesis from SGT University, Gurugram. By Dr Bibhabati Mishra.

Faculty Strength

Professor : 2

Associate Professor: 1

Assistant Professor: 1

Consultant: 1

Other significant information –

Trainees from other agencies: Practical training of medical lab technology in microbiology to trainees from Meerabai institute of technology, maharani bagh New Delhi- 15 trainees for three weeks in April-May and October - November 2019

MICROBIOLOGY (MAMC)

Major Activities and achievements

The Department of Microbiology at Maulana Azad Medical College is at the forefront of teaching the principles of Microbiology to Undergraduate (MBBS, BDS, B.Sc. Nursing), and Postgraduate (MD). MBBS students get adequate exposure through lectures, practical demonstrations, micro-teaching sessions, hands-on practical sessions, as per the guidelines issued by DU and MCI.

During their 3-year stay in the department, the Post graduate students are intimately involved in diagnostic Clinical Microbiology work, interpretation and correlation of laboratory results with clinical findings. They are also encouraged to conduct research work.

In March 2020, the Department of Microbiology started testing for SARS CoV-2. An advanced BSL-2 level Laboratory was set up along with establishment of Molecular laboratory with all the facilities for

performance of RT-PCR tests. The department is also the co-ordinator for Second, Third and Fourth rounds of COVID-19 sero- surveillance in Delhi.

Honors/ Distinctions

Dr. C.P. Baveja awarded State Doctors Award by Government of NCT of Delhi in 2019.

Dr. C.P. Baveja awarded “Distinguished Alumnus Award” of MAMC in 2019. The award was conferred by the Vice President of India.

Dr. Rohit Chawla after having passed the theory and practical examinations in the subject of Microbiology was awarded Diplomate of National Board (DNB) by the National Board of Examinations, Ministry of Health & Family Welfare, Government of India.

Dr. Rohit Chawla was conferred with President-National Board of Examinations Gold Medal for academic excellence in the field of Clinical Microbiology by Dr. Harsh Vardhan, Hon’ble Union Minister of Health & Family Welfare, Government of India, during the 20th Convocation of the National Board of Examinations on 24 December’2019 at New Delhi.

Dr. Rohit Chawla was felicitated by the National Board of Examinations (NBE), Ministry of Health & Family Welfare, Government of India, in recognition of bringing the academic richness to the postgraduate programmes of the NBE.

Publications

Abhishek K.S., Siddiqui O., Chakravarti A. (2019) Increasing number of secondary dengue cases: a concern. *International Journal of Research in Medical Sciences*. 7(5), 1558

Chaudhry R., Thakur C.K., Gupta N., Sagar T., Bahadur T., Wig N., Sood R., Misra M.C. (2019). Mortality due to scrub typhus - report of five cases. *Indian Journal of Medical Research*. 149(6):790-794.

Manchanda V., Prasad D., Randive B., Gerhardt A., Huskins W.C., Singh N. (2019). Infection control practices at facilities providing monetary incentives for facility births: An assessment at selected labour and delivery rooms in two states of India. *Journal of Patient Safety and Infection Control*. 7,25-30.

Suman U., Chaudhary M., Baveja C.P. (2019). A Rare Presentation of Salmonella Typhi As Multiple Liver Abscess With Typhoid Fever In A Child. *International Journal Of Scientific Research*, 8,63-64.

Books Published:

Dr. C.P. Baveja

Practical Pathology Microbiology and Pharmacology (Dental Students) 3rd Edition has been written as co-author by Dr. C.P. Baveja and published by Arya Publications, Delhi

Dr. Rohit Chawla

Co-editor, Lippincott Illustrated Reviews Microbiology, First South Asian Edition. Published by Wolters Kluwer in November 2019.

Co-editor, Training Module on Opportunistic Infections in HIV: Laboratory Diagnosis & Laboratory-Clinical Interface. Published by National AIDS Control Organization, Ministry of Health & Family Welfare, Government of India in August 2019.

Research Projects

- i. Integrated Counselling and Testing Centre for HIV under NACO & DSACS.
- ii. State Reference Laboratory for HIV under NACO & DSACS.
- iii. Laboratory for enumeration CD4 T-lymphocyte by flow cytometry under NACO & DSACS.
- iv. Regional STI Reference, Research and Training Center Laboratory under NACO & DSACS.
- v. Point-of-Care (POC) devices for bedside diagnosis of bacteremia and neonatal sepsis. *Funded by DST, IMPRINT-2 funds*
- vi. Development of a point-of-care (POC) diagnostic panel for rapid detection and stratification of bacterial septicemia in critically-ill patients. *Funded by DST under nanomission grant*
- vii. Evaluating PCV impact on invasive pneumococcal disease, pneumonia, pneumococcal carriage, and health economic outcomes in India. *Funded by Bill Gates Melinda Foundation and Pfizer.*
- viii. Rapid diagnosis of candidemia through a novel, rapid and cost-effective spot immunomagnetic enrichment device (SiMED) Initiated July 2018, funded by DBT
- ix. “Utility of Fecal Biomarkers in Acute Infectious Diarrhea in Children.”, funded by MAMC.
- x. Detection of Dermatophytes in patients with Onychomycosis Funded by MAMC
- xi. To determine the spectrum of anaerobic bacteria in clinical specimens and the utility of real-time PCR for the diagnosis of anaerobic infections. Funded by MAMC

Seminars organized

Dr. C.P. Baveja & Dr. Rohit Chawla

- i. Conducted training on IGNOU CHCWM Programme from 13 to 15 May, 2019 at New Delhi. □
- ii. Conducted induction training on IGNOU CHCWM Programme on 23 & 24 October, 2019 at New Delhi. □
- iii. Conducted training on IGNOU CHCWM Programme from 06 to 08 November, 2019 at New Delhi. □
- iv. Organized training programs on Biomedical Waste Management for Senior Residents, Junior Residents and Technical staff of Maulana Azad Medical College. □

Dr. Vikas Manchanda

- i. Organized an awareness campaign through a Walkathon on Antimicrobial resistance containment from MAMC to Raj Ghat on November 17, 2019 in collaboration with IAMM, WHO, CDC, USA

Dr. Rohit Chawla

- i. Conducted training of Master Trainers for “Blended Clinical Training Programme” as a Senior Master Trainer under the aegis of National AIDS Control Organization, Ministry of Health & Family Welfare, Government of India, from 25 to 28 June, 2019 at New Delhi. □
- ii. Conducted training of Master Trainers for “Blended Clinical Training Programme” as a Senior Master

Trainer under the aegis of National AIDS Control Organization, Ministry of Health & Family Welfare, Government of India, from 02 to 05 July, 2019 at Guwahati. □

- iii. Conducted training on IGNOU Postgraduate Diploma in HIV Medicine (PGDHVM) Programme on 19 September, 2019 at New Delhi.
- iv. Conducted scientific session on “Standard Precautions and Biomedical Waste Management” during workshop on Preservation Techniques of Human Body on 20 December, 2019 at New Delhi. □

Faculty strength

Director Professor: 2

Associate Professor: 2

Assistant Professor: 3

Other significant information

CHCWM course of IGNOU of First Batch was started and completed in December 2018 at IGNOU Program Study Centre (PSC), at Microbiology Department, MAM college, New Delhi.

MICROBIOLOGY (LHMC)

Major Activities and Achievements

Dr. Ravinder Kaur has been awarded: “Bhujwala award of excellence for work in Microbiology” by Delhi Chapter IAMM.

Dr. Ravinder Kaur Felicitated By: Ministry of Health & Family Welfare on the occasion of Doctor’s day on 1st July, 2019, ILBS, New Delhi for raising awareness on Hepatitis on 22nd Hepatitis Day on 4th December 2019.

New initiatives in microbiology deptt:

1. Setting up of virology diagnostic and research facility (VRDL) in Department of Microbiology in LHMC in collaboration with DHR/ICMR. For- identification and diagnosis of different viral diseases at serological and molecular level & Diagnose suspected outbreaks of viral diseases like H1N1 etc.
2. Setting up of advanced mycology diagnostic and research facility (MRDL) in Department of Microbiology in LHMC. ICMR technical team has already visited and approved the feasibility of establishing advanced mycology diagnostic and research facility (MRDL) in Deptt of Microbiology in LHMC.
3. Starting of VIDAS TEST—Automated ELISA tests for HEV, HAV Serum Procalcitonin.
4. MIGIT & Gene-expert for rapid culture and susceptibility testing of Mycobacterium tuberculosis and detection of Rifampicin resistance.
5. Molecular lab services being initiated for rapid identification of pathogens which are difficult to grow/ unable to grow at an early stage

Publications:

1. Kaur R, Jaggi S, Dhakad MS, Rawat D. An etiological and antifungal profile of candidemia in children. *International Journal of Community Medicine and Public Health*. 2019; 6(9): 3899-904.
2. Thass N, Kumar M, Kaur R. Prevalence and antibiogram of bacterial pathogens causing urinary tract infection in a tertiary care hospital, *International Journal of Medical Science and Public Health* 2019; 8(1): 53-7.
3. Saxena S, Priyadarshi M, Saxena A, Singh R. Antimicrobial consumption and bacterial resistance pattern in patients admitted in I.C.U. at a tertiary care center. *J Infect Public Health* 2019. <https://doi.org/10.1016/j.jiph.2019.03.014>.
4. Tamhankar AJ, Nachimuthu R, Singh R, Harindran J, Meghwanshi GK, Kannan R, Kumar NS et al. Characteristics of a nationwide voluntary antibiotic resistance awareness campaign in India; future paths and pointers for resource limited settings/low and middle income countries. *Int. J. Environ. Res. Public Health* 2019;(16): 5141.

Journals Published/ Edited -

Dr. Ravinder Kaur

1. Focal Point & Coordinator Antimicrobial Resistance Surveillance Programme of NCDC & Min. of H&FW.
2. Member WHO, IAMM Network for Surveillance of Antimicrobial Resistance-Delhi (WINSAR-D).
3. Member Subcommittee on Minimum standards of Medical Diagnostic laboratory in Min. of H&FW.
4. Member National Technical Consultation for Development of State Action Plans on Climate Change, AntiMicrobial Resistance and Patient Safety.
5. National Faculty DTH-NPTEL-Medical Recording Meeting of National Coordinators and Experts in NPTEL Medical education programme under HRD ministry.
6. Member Selection Board for the faculty interview of Professor and Assistant Professor, Microbiology at ESIC Medical College & Hospital, North DMC Medical College & Baba Saheb Ambedkar Medical College & Hospital, Govt. of NCT of Delhi & Faculty of Dentistry, Jamia Millia Islamia.
7. Expert reviewer in J of Chemotherapy, IJMR.

Dr. V S Randhawa

1. Technical expert to NACO, AIIMS New Delhi, AIIMS Rishikesh, Pt B.D. Sharma University of Health Sciences, Panjab university, I.P University, ILBS New Delhi and MAMC New Delhi.

Dr. Manoj B Jais

1. Member Secretary of infection prevention committee.
2. Member Secretary of patient safety committee.
3. Nodal officer and member secretary of BMWM Committee.

Dr. Sonal Saxena

1. Joint Secretary, Indian Association of Medical Microbiology, 2019-21.

2. Secretary, Indian Association of Medical Microbiology, Delhi Chapter 2017-2019.
3. Technical and Clinical Expert, Scientific Advisory Group (SAG), Biotechnology Industry Research Assistance Council (BIRAC) Public Sector Undertaking of DBT, 2018.
4. Member, Project Review Committee (OMI), ICMR, New Delhi.
5. Member, Framework of National Guidelines committee at National Ambulance Services, Ministry of Health & Family Welfare.
6. Member: Institutional Ethics Committee and Medical Education Unit in LHMC.
7. Member Selection Board, ESI Dental College, Rohini.
8. Member Technical group for formulation of State Action Plan for Control of Antimicrobial Resistance Delhi (SAPCARD).
9. Focal Point & Coordinator, WHO IAMM Network for Surveillance of Antimicrobial Resistance-Delhi (WINSAR-D).

Dr. Manoj Kumar

1. Estate officer, Lady Hardinge Medical College & Associated Hospitals up to January.
2. Expert of Microbiology for Pre-bid meeting under PMSSY-IV & V Project Chairperson of Committee for selection of firms for outsourcing of MTS, DEO, Executive assistants and Arogyamitra through GeM portal.

Research Projects: 8

Name of investigator	Project in charge	Title of the project	Name of the Funding Agency	Budget in RS
Dr. Ravinder Kaur	Dr. Ravinder Kaur	Characterization and antifungal resistance profile of candidiasis	ICMR	2831605
Dr. Ravinder Kaur	Dr. Ravinder Kaur	Congenital Rubella syndrome surveillance in India- A multicentric study	ICMR	Multicentric
Dr. Ravinder Kaur Dr. Sonal Saxena	Dr. Ravinder Kaur Nodal Office	National program for containment of antimicrobial resistance	NCDC, Delhi	8,40,000
Dr. Ravinder Kaur Dr. Manoj B Jais Dr. Manoj Kumar	Dr. Manoj B Jais PI	Establishment of Viral Research & Diagnostic Laboratory (VRDL) in LHMC	Department of Health Research (DHR), Ministry of Health & Family Welfare	5 crore
Dr. Ravinder Kaur	Dr. Ravinder Kaur Co PI	Phase III Multicentric double blind randomized trial to assess the efficacy of probiotics in the treatment of neonatal sepsis in 0-2 months low birth weight neonates in India	ICMR	
Dr. Ravinder Kaur Dr. Sonal Saxena	Dr. Sushma Nangia	Neo AMR global neonatal sepsis observational study	GARDP and DNDi.	

	Deptt of Neonatology PI	(NeoOBS): A prospective cohort study of sepsis in hospitalised neonates		
Dr. Ravinder Kaur Dr. V.S. Randhawa	Dr. V.S. Randhawa	External quality assessment scheme for HIV testing programme	NACO/DSACS Ongoing since 2000	Funded by DSACS directly
Dr. Sonal Saxena	Dr. Sushma Nangia PI	Indo Norway project entitled “Born in the twilight of antibiotics: Implications of antibiotic use to the preterm infant resp. microbiome and resistance development”	ICMR & research Council of Norway	

Conferences organized:

S. No.	Name, Venue & Date	Faculty Member	Organiser(s)
1	National Technical Consultation for Development of State Action Plans on Climate Change, Anti Microbial Resistance and Patient Safety”, held on 9th Jan 2019 at IHC, Delhi	Dr. Ravinder Kaur	Centre for Environmental and Occupational Health, Climate Change & Health (CEOH & CCH), Ministry of H & F.W., CDC & NCDC
2	Preconference CME on “Climate Change and Health.” At 4th International Conference on Climate, Environment & Health (ICOEH) on 14th Feb 2019 At LHMC	Dr. Ravinder Kaur Dr. Sanjib Gogoi	Association of Occupational and Environmental Health, Deptt of Community Medicine, LHMC & VMHC
3	Health Care Worker’s Occupational Health RISKS on 16th Feb 2019	Dr. Ravinder Kaur	Association of Occupational and Environmental Health, Deptt of Community Medicine, LHMC & VMHC
4	CDC NCDC “Annual Review of AMR Surveillance Network labs under National AMR Surveillance Program, training workshop on development of antibiogram”, 13th- 15th March 2019	Dr. Ravinder Kaur Dr. Sonal Saxena	NCDC, Delhi
5	CME “Current Challenges in laboratory detection of	Dr. Ravinder Kaur	Indian Association of Medical

	Antimicrobial resistance” at IHC, New Delhi on March 9th, 2019		Microbiologists Delhi Chapter
6	Inception meeting of “WHO-IAMM Network for Surveillance of Antimicrobial Resistance (WINSAR)” on 28-29th March, 2019 at Hotel Fortune, Gurgaon	Dr Sonal Saxena Dr Ravindra Kaur	Indian Association of Medical Microbiologists
7	National Faculty DTH NPTEL-Medical Recording Meeting of National Coordinators and Experts- 29th April 2019	Dr. Ravinder Kaur	Min. of Human Resources
8	Workshop on maintenance and certification of Biological Safety Cabinets (BSC) at NIB in 13th May 2019	Dr Sonal Saxena Dr Ravindra Kaur	NIB
9	State Action Plan to Combat Antimicrobial Resistance in Delhi, technical meeting at Delhi on 26th July, 2019	Dr Sonal Saxena Dr Ravindra Kaur	WHO & Delhi Govt
10	Workshop cum Principal Investigators meeting for the CDC-funded project entitled “Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India” on 6th and 7th Aug, 2019 at Studio-1, AIIMS	Dr Ravindra Kaur Dr Manoj B Jais	AIIMS, CDC, NCDC
11	WHO-IAMM Network for Surveillance of Antimicrobial Resistance in Delhi, Inception meeting under IAMM DC & WHO-India at IHC, on 8th Aug 2019	Dr. Ravinder Kaur	WHO & Indian Association of Medical Microbiologists
12	National CME on “Fungal infections: recent perspectives” held at ILBS, New Delhi on 31st Aug 2019	Dr. Ravinder Kaur Dr. Deepti Rawat	Institute of Liver and Biliary Sciences
13	Stake holders Workshop on “State Action Plans to combat	Dr Sonal Saxena Dr Ravindra Kaur	DGHS, Ministry of Health & Family

	Antimicrobial resistance in Delhi (SAP CARD) “26-27th Aug 2019 at Lalit hotel		Welfare
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Faculty Strength: 09

MICROBIOLOGY (UCMS)

Major Activities and Achievements

Applied for establishment of Advanced Virology Laboratory under DHR, ICMR. Conducted training programme in Bio-medical waste and quality indicator by NABL assessor (Dr. Neeraj Jain).

The department is performing 40,000 – 45,000 diagnostic tests per month on samples received from different IPDs and OPDs of GTB Hospital. Processing of blood and body fluid is being done on regular basis on the Automated Blood and Body Fluid System BACTEC 9120. Antifungal susceptibility testing & genotyping of fungal isolates has been started. The research activities intensified in the molecular biology lab.

Other areas of interest developed in the Department are: Immunology and Molecular biology Studies in Autoimmune Diseases & Fungal infections and Genetics of ESBLs & Carbapenemases. Genetic characterization of HIV subtypes in India, Molecular profile of dengue virus, North India, diarrhoeagenic E coli & transcriptomes

Honours/Distinctions

Dr. Das Shukla

- Certified Master Trainer for Blended HIV Training Program FOR Laboratory Technicians under MOHFW & NACO
- Invited Speaker on DAAS July 2019 as a panellist on Drug resistance in Dermatophytes 17th
- Gender sensitization of Nursing students, 2019 at UCMS
- Invited Speaker at AIIMS Jodhpur, SIHAM Feb 2020 Molecular Mechanism of Antifungal
- Invited Lecture on Immunology of fungal Infections : at ILBS On Aug 2019 Molecular Resistance in fungal infections
- Invited Talk: Bioaerosol : role in air Pollution at Surat Govt Medical college on 28th Feb 2020
- Invited Lecture on 17th Sept 2019 at PGIMER Rohtak on National Viral hepatitis control program

Dr. Saha Rumpa

- Received Best Oral Presentation at GISICON 2019 7th National Conference of Gastrointestinal Society of India at DMC Ludhiana, 31st Oct - 1st Nov 2019

- Received Best Published Paper for 2018-19 at GISICON-2019 7th National Conference of Gastrointestinal Society of India at DMC Ludhiana on 1st Nov 2019
- Received Best Published Paper for 2018-19 at GISICON-2019 7th National Conference of Gastrointestinal Society of India at DMC Ludhiana on 31st Oct - 1st Nov 2019

Dr Singh. N.P.

- Dr. Kiranpreet Kaur, Dr. Dheeraj Shah, Dr. N.P. Singh, Dr. Pooja Dewan, Dr. Piyush Gupta Received Gold medal Dr. S.T. Achar Award at PEDICON 2020 for Clinical profile, antimicrobial resistance pattern, carrier state and predictors of adverse outcome in children hospitalized with staphylococcal infections.
- Dr. Rituparna Saha, Dr Bineeta Kashyap, Dr Vikas saini, Dr NP Singh awarded the 2nd prize for Prof PKC Pillai award at Micro-D-Con 2019 for poster presentation on ‘Conventional versus Reverse Testing Algorithm for Syphilis in High Risk Population: A Diagnostic dilemma
- Thakur Datt, Shyama Datt, Iqbal Singh, Simrita Singh, N. P. received 2nd prize for poster presentation on “Expression of Multi Drug Efflux pump membrane gene tolC, porin genes yiaT & ompC and membrane protease ompT gene in *E. coli* isolates from Urinary Tract Infection detected by Real time PCR” at UP-UK MICROCON 2020 at SRMS, Bareilly

Publications

1. Singh T, Singh PK, Dar SA, Haque S, Akhter N, Das S. Changing paradigm of antibiotic resistance amongst *Escherichia coli* isolates in Indian pediatric population. *PLoS One*. 2019 Apr 17;14(4):e0213850. doi: 10.1371/journal.pone.0213850. PMID: 30995225; PMCID: PMC6469777.
2. Sonthalia S, Bhattacharya SN, Agrawal M, Das S. High-magnification universal serial bus dermoscopy: A convenient alternative to direct microscopic examination. *J Am Acad Dermatol*. 2019 Sep 10:S0190-9622(19)32733-1. doi: 10.1016/j.jaad.2019.08.083. Epub ahead of print. PMID: 31518604.
3. Kayarkatte MN, Singal A, Pandhi D, Das S. Clinico-mycological study of onychomycosis in a tertiary care hospital-A cross-sectional study. *Mycoses*. 2020 Jan;63(1):113-118. doi: 10.1111/myc.13025. Epub 2019 Nov 13. PMID: 31642133
4. Rai G, Roy P, Gupta N, Sharma S, Dar SA, Ansari MA, Ramachandran VG, Das S. Computed Tomography Score an Excellent Marker: Differentiates Eosinophilic and Non-eosinophilic Variants of Chronic Rhinosinusitis with Nasal Polyp. *Indian J Otolaryngol Head Neck Surg*. 2019 Nov;71(Suppl 3):1787-1792. doi: 10.1007/s12070-017-1154-x. Epub 2017 Jul 26. PMID: 31763246; PMCID: PMC6848347.
5. Rai G, Das S, Ansari MA, Singh PK, Pandhi D, Tigga RA, Bhattacharya SN, Gupta C, Dar SA. The interplay among Th17 and T regulatory cells in the immune dysregulation of chronic dermatophytic infection. *Microb Pathog*. 2020 Feb;139:103921. doi: 10.1016/j.micpath.2019.103921. Epub 2019 Dec 10. PMID: 31830582.
6. Datt S, Das S, Datt T. Study of Clinico-Mycological and Molecular Profile and Antifungal Susceptibility Pattern of Dermatophytic Onychomycosis Infection in East Delhi, India. *International Journal of Current Microbiology and Applied Sciences* ISSN: 2319-7706 Volume 8 Number 11 (2019)

7. Meena M, Ramachandran VG, das shukla, Kumar kuldep, Rai gargi:annals of pathology and laboratory medicine, "detection and study of interleukin-21 levels in art recipients" *Annals of Pathology & Lab Med* 2019;11(6):616-621
8. Garg D , Shukla Das , AG Radhika , Raizada A, Gaurav V , Saha R , Sonthalia S , Tigga R. Aetiological Pattern of Vulvovaginal Infections in Asymptomatic and Symptomatic HIV Seropositive Women on Antiretroviral Therapy *Journal of Clinical and Diagnostic Research*, 2020.:1-7.
9. Gupta N, Kashyap B, Dewan P, Hyanki P, Singh NP. Clinical spectrum of pediatric tuberculosis: a microbiological correlation from a tertiary care center. *J Trop Pediatr* 2019;1;65(2):130-138. doi: 10.1093/tropej/fmy026.
10. Kashyap B, Goyal N, Gupta N, Jhanjhria S, Tajuddin M, Singh NP. Distribution of TNF- α among antenatal women with varying levels of vitamin D. *Annals Pathol Lab Med* 2019; 6(10):537-543.
11. Jhanjhria S, Kashyap B, Gomber S, Gupta N, Hyanki P, Singh NP, et al. Phenotypic isoniazid resistance and associated mutations in pediatric tuberculosis. *Indian J Tuberc.* 2019;66(4):474-479.
12. Kashyap B, Gupta N, Dewan P, Hyanki P, Singh NP. High Sensitivity C Reactive Protein: An Adjunct Diagnosis in Ruling Out Pediatric Tuberculosis. *Indian J Clin Biochem.* 2019; <https://doi.org/10.1007/s12291-018-0806-2>
13. Kashyap B, Goyal N, Srivastav S, Singh NP. A prospective surveillance of ESKAPE pathogens in the ICU of a tertiary care hospital. *Intr J Med Sci Innov Res.* 2019;5: 70-82.
14. Kashyap B, Goyal N, Singha K, Tajuddin M, Singh NP. Correlation of hs-CRP levels with anti-CCP and Rheumatoid factor among clinically suspected rheumatoid arthritis cases: a predictor for early inflammation? *Annal Patho lab Med.* 2019; 6(9):481-486.
15. 8. Kashyap B, Goyal N, Prakash A. Seroprevalence of Scrub Typhus among Widal Negative, Febrile Patients by a Rapid Immuno-Chromatographic Test. *Intr J Med Sci Innov Res.* 2019;5: 44-52.
16. Kashyap B, Goyal N, Singha K, Tajuddin M, Singh NP. Yearly trend of syphilis seroprevalence among STD, ART and ANC attendees: six year period study from a tertiary care hospital. *Annal Patho lab Med* 2019 ;6(10): A557-A566.
17. Kumar S, Kashyap P, Kumar NB, et al. 2612. Molecular Evidence of *Ureaplasma urealyticum* and *Ureaplasma parvum* Colonization in Preterm Infants with Respiratory Distress. *Open Forum Infectious Diseases.* 2019 Oct;6(Suppl 2):S908-S908.
18. Tajuddin Mohd,Iqbal R Kaur, Bineeta Kashyap,MMA Faridi ,N P Singh. Study of Interleukin-6 as an Indicator Biomarker in Perinatal Asphyxia. *Annals Pathol lab med* 2019; 6(4)DOI: .
19. Kashyap B, Dibyashree, Saha R, Singh NP, Hyanki P, Khanna A. Genexpert positivity and evaluation of rifampicin resistance among endometrial biopsy specimens for the diagnosis of Genital Tuberculoiss. *New Indian J Obs Gyn* 2020; 6(2): 119-22.
20. Rumpa Saha, Bhoomika Saxena, Sungtila T Jamir, Shwetank Shekhar. Prevalence of Cryptosporidiasis in symptomatic immunocompetent children and comparative evaluation of its diagnosis by Ziehl Neelson staining and antigen detection techniques. *Tropical Parasitol* 2019; 9(1); 18-22.

Research projects:

Dr. Das Shukla

Principal Investigator	Title of the Project	Years	Funded by	Grant Rs.
Dr. Shukla Das	"Investigation of mechanisms of emerging drug resistance in Trichophyton sp., the major causative agents of fungal skin infections".	2017-2020	DBT	20L
	Dysregulated pro-inflammatory host immune response among drug resistant and susceptible dermatophytosis patients	2020-2023	ICMR	36L
	Th17 and Treg cell differentiation and their in-vitro functional responses in Pemphigus vulgaris		DBT	50L

Dr. Bineeta Kashyap

- A. Three Vs Four dose schedule of double dose recombinant Hepatitis-B-Vaccine in HIV-infected children (completed)
- B. Study of resistance to colistin and tigecycline in Klebsiella species isolated from various specimens of ICU patients (started)
- C. Change in granulation tissue coverage and bacteriological load using wall mounted negative pressure wound therapy device in wounds of acute musculoskeletal injury patients (started)
- D. The utility of peripheral blood monocyte subsets and monocyte markers in pulmonary tuberculosis (started)
- E. T regulatory cells in pediatric tuberculosis (started)
- F. Correlation of plasma levels of INF gamma, TNF alpha and IL6 with severity of disease and treatment effect in spinal tuberculosis (protocol submitted)
- G. Evaluation of serum level of inflammatory cytokines in Nail Psoriasis: a cross-sectional study (protocol submitted)

Faculty Strength

Director Professor – 2
 Professor -1
 Assoc. Professor - 1

Other Significant Information

Foundation course for MBBS in Phase I curriculum

MICROBIOLOGY (VPCI)

Major Activities and Achievements

Department of Microbiology at VP Chest Institute is actively involved in diagnostics, teaching and research. Several diagnostic tests pertaining to Bacteriology, Anaerobic bacteriology, Mycobacteriology, Virology & Mycology are being carried out. Higher end facilities Like gene-expert, MGIT, Gene sequencer and MALDI-TOFF are available for identifying the pathogens. Research in drug resistance profiling and molecular characterization and typing of bacterial pathogens including *M. tuberculosis* isolates, Ethambutol resistance mechanisms, role of efflux pumps in drug resistance of *M. tuberculosis*, newer diagnostic techniques are actively pursued. The department is also carrying out diagnosis of Covid 19 by RT-PCR and Rapid antigen assay. It is also involved in Sero-surveillance of Covid 19 in the population of Delhi.

The Medical Mycology division provides diagnostic mycological and serologic services to the Clinical Research Center of the Institute and to other hospitals in Delhi. Apart from diagnostic services the department is engaged extensively in various human pathogenic fungi such as *Candida auris*, *C. parapsilosis*, *C. albicans*, *C. glabrata*, *Trichophyton* spp., *Aspergillus fumigatus* etc. The Virology division is actively involved in diagnostics of respiratory viruses in clinical samples and performing basic/translational research in the field of virology. The laboratory is routinely performing influenza (H1N1) diagnostics and corona virus testing in clinical samples from the patients visiting Viswanathan Chest Hospital at the institute. Major focus of the laboratory is antiviral research and Vaccines development against influenza and chikungunya virus.

Honours/Distinctions

Vallabhbhai Patel Chest Institute, Delhi (Virology Unit) has been designated as center for COVID-19 testing.

Mr. Sanjesh Saini (PhD Scholar) and Mr. Nilanshu Manocha (PhD Scholar) were awarded Bill Melinda Gates Foundation Young Investigator Travel Fellowship Award to attend the 10th edition of the conference 'Options for the Control of Influenza' (OPTIONS X).

Best Poster Award: Kamal Shrivastava, Varsha Chauhan, Chanchal Kumar, Anupriya Singh, Mandira Varma-Basil, Development of real time assay for rapid identification of *Mycobacterium tuberculosis* and Nontuberculous Mycobacteria directly in sputum samples. Indian Association of Medical Microbiologist, Delhi chapter, 20th July 2019, at India Habitat center.

Prof. Mandira Varma Basil

1. Member Ethics committee, RajanBabu Institute of Pulmonary Medicine and Tuberculosis
2. Secretary Indian Association of Mycoplasmologist

Dr. Anuradha Chowdhary

1. Received India Research Excellence-Citation Award 2019 in Medical & Health Sciences -most cited researcher in health Sciences (India) by Web of Science Group/Clarivate Analytics.
2. Elected Fellow, National Academy of Medical Sciences (FAMS), Delhi, India , 2019
3. Editor, *PIOS Pathogens*, 2019
4. Editor, *FEMS Pathogens & Disease*, 2019

5. Editor, *Journal of Fungi*. “Special Issue-Candida auris” 2019
6. Editor, Fungal genetics & Biology, “Special Issue on Antifungal resistance in clinically significant fungi” 2019.
7. Developer, of Early Implementation Protocol for Inclusion of *Candida* species in Global Antimicrobial Resistance Surveillance System (GLASS), World Health Organization, August, 2019
8. Executive Council Member, International Society of Antimicrobial Agents & Chemotherapy (ISAC), 2019.
9. Treasurer, Fungal Working Group, International Society of Antimicrobial Agents & Chemotherapy (ISAC), 2019.

Publications: Total: 22

1. Bidaud AL, Botterel F, Chowdhary A, Dannaoui E. (2019). In vitro antifungal combination of flucytosine with amphotericin B, voriconazole, or micafungin against *Candida auris* shows no antagonism *Antimicrob Agents Chemother*. 2019; 63: e01393-19.
2. Colley T, Sharma C, Alanio A, Kimura G, Daly L, Nakaoki T, Nishimoto Y, Bretagne S, Kizawa Y, Strong P, Rapeport G, Ito K, Meis JF, Chowdhary A. (2019). Anti-fungal activity of a novel triazole, PC1244, against emerging azole-resistant *Aspergillus fumigatus* and other species of *Aspergillus*. *J Antimicrob Chemother*; 74:2950-2958. doi: 10.1093/jac/dkz302.
3. Gaur M, Singh A, Sharma V, Tandon G, Bothra A, Vasudeva A, Kedia S, Khanna A, Khanna V, Lohiya S, Varma-Basil M, Chaudhry A, Misra R, Singh Y (2020) Diagnostic performance of non-invasive, stool-based molecular assays in patients with paucibacillary tuberculosis. *Sci Rep*. ;10(1):7102. doi:10.1038/s41598-020-63901-z
4. Kenters N, Kiernan M, Chowdhary A, Denning DW, Pemán J, Saris K, Schelenz S, Tartari E, Widmer A, Meis JF, Voss A. (2019). Control of *Candida auris* in health care institutions: Outcome of an International Society for Antimicrobial Chemotherapy Expert meeting. *Int J Antimicrob Agents*.;54(4):400-406. doi: 10.1016/j.ijantimicag.2019.08.013. Aug 13.
5. Khanna M, Manocha N, Himanshi, Joshi G, Saxena L, Saini S, (2019). Role of retroviral vector-based interventions in combating virus infections. *Future Virology*,14 (7):473-485.
6. Khurana A, Sardana K, Chowdhary A, Sethia K. (2019). Clinical implications of antifungal drug susceptibility testing of dermatophytes. *Indian Dermatol Online J*. 10: 737–738. doi: 10.4103/idoj.IDOJ_253_19
7. Khurana A, Sardana K, Chowdhary A. (2019)Antifungal resistance in dermatophytes: recent trends and therapeutic implications. 2019.*Fungal Genet Biol*. Nov;132:103255. doi: 10.1016/j.fgb.2019.103255.
8. Kumar A, Kunoor A, Eapen M, Singh PK, Chowdhary A. (2019). Blastomycosis misdiagnosed as Tuberculosis, India. *Emerg Infect Dis*.; 25: 1776–1777. doi: 10.3201/eid2509.190587.
9. Kumar M, Hooda P, Khanna M, Patel U, Sehgal D, (2020). Development of BacMam Induced Hepatitis E Virus Replication Model in Hepatoma Cells Study the Polyprotein Processing. *Front Microbiol*.; 11:1347.
10. M. C. Ugwu , M. Shariff , C.M. Nnajide, K Beri, U. M. Okezie, I. R. Iroha, and C. O. Esimone. (2020). Phenotypic and Molecular Characterization of β -Lactamases among Enterobacterial

11. Mahmoudi S, Rezaie S, Daie Ghazvini R, Hashemi SJ, Badali H, Foroumadi A, Diba K, Chowdhary A, Meis JF, Khodavaisy S. (2019). In vitro interaction of geldanamycin with triazoles and echinocandins against common and emerging *Candida* species. *Mycopathologia*; 184:607-613. doi: 10.1007/s11046-019-00370-7.
12. Narang A, Garima K, Porwal S, Bhandekar A, Shrivastava K, Giri A, Sharma NK, Bose M, Varma-Basil M. (2019) Potential impact of efflux pump genes in mediating rifampicin resistance in clinical isolates of *Mycobacterium tuberculosis* from India. *PLoS One.*;14(9): e0223163. Published 2019 Sep 26. doi: 10.1371/journal.pone.0223163
13. Ranjan D, Sharma S, Kumar B, Singh V, Khanna M, (2019). Evaluation of Respiratory Virus Pathogen from Patients Presenting with Influenza like Illness at Various Hospitals in Delhi, India. *J Pulm Med Respir Res*, 5: 023
14. Sharma C, Nelson-Sathi S, Singh A, Radhakrishna Pillai M, Chowdhary A. (2019). Genomic perspective of triazole resistance in clinical and environmental *Aspergillus fumigatus* isolates without *cyp51A* mutations. *Fungal Genet Biol.*; 132:103265. doi: 10.1016/j.fgb.2019.103265.
15. Sharma NK, Rathor N, Sinha R, Gupta S, Tyagi G, Garima K, Pathak R, Singh P, Jain A, Bose M, Varma-Basil M. (2019) Expression of mycolic acid in response to stress and association with differential clinical manifestations of tuberculosis. *Int J Mycobacteriol.* ;8(3):237-243. doi: 10.4103/ijmy.ijmy_69_19
16. Shrivastava, Kamal & Kumar, Chanchal & Singh, Anupriya & Narang, Anshika & Giri, Astha & Gupta, Shradha & Sharma, Naresh & Chauhan, Varsha & Prasad, Rajendra & Varma Basil, Mandira. (2020). An overview of pulmonary infections due to rapidly growing mycobacteria in South Asia and impressions from a subtropical region. *International Journal of Mycobacteriology.*; 9(1): 62-70.10.4103/ijmy.ijmy_179_19.
17. Singh A, Masih A, Monroy-Nieto J, Kumar Singh P, Bowers J, Travis J, Khurana A, Engelthaler DM, Meis JF, Chowdhary A.(2019). A unique multidrug-resistant clonal *Trichophyton* population distinct from *Trichophyton mentagrophytes* / *Trichophyton interdigitale* complex causing an ongoing alarming dermatophytosis outbreak in India: genomic insights and resistance profile. *Fungal Genet Biol.*;133: 103266.doi: 10.1016/j.fgb.2019.103266.
18. Singh A, Singh P, de Groot T, Kumar A, Mathur P, Tarai B, Sachdeva N, Upadhyaya G, Sarma S, Meis JF, Chowdhary A (2019). Emergence of clonal fluconazole resistant *Candida parapsilosis* clinical isolates in a multicentre laboratory-based surveillance in India. *J Antimicrob Agents & Chemother.*; 74:1260-1268. doi: 10.1093/jac/dkz029. (Impact factor: 5.113)
19. Singh M, Bhatt P, Sharma M, Varma-Basil M, Chaudhry A, Sharma S. (2019) Immunogenicity of late stage specific peptide antigens of *Mycobacterium tuberculosis*. *Infect Genet Evol.* ;74:103930. doi:10.1016/j.meegid.2019.103930
20. Tonushyam Sonowal & Malini Shariff. (2019) Atypical *Escherichia coli*: A dilemma of a clinical diagnostic laboratory. *Indian J Med Microbiol*; 37:287-8.
21. Varma-Basil M, Bose M. (2019) Innovations in tuberculosis diagnostics: How far are we from reaching our goal?. *Indian J Med Res*;150(1):4-6. doi:10.4103/ijmr.IJMR_537_19

Journals

- Number of Department teachers serving as : 04
Editor(s)/Member(s) of Editorial Board

Research Projects

ICMR: Prof. Malini Shariff " Isolation and Characterization of Anaerobic Bacteria causing Lower Respiratory Tract Infections in Patients attending VP Chest Institute, Delhi. March 2017 for 3 years. Completed July 2019.

ICMR: Dr. Mandira Varma Basil, (2019-2022) "Development of a rapid phenotypic assay to differentiate between *Mycobacterium tuberculosis* and Nontuberculous Mycobacteria. Rs. 52 lakhs.

ICMR: Dr. Madhu Khanna, Rs.37 Lakhs, Triple targeting engineered virus: A tool to counter influenza infection.

ICMR: Dr. Anuradha Chowdhary, 2017-2020. Multilocus microsatellite typing and antifungal profile of clinical *Cryptococcus neoformans* species complex isolated from patients of cryptococcosis.

Seminar/Conference Presentations (National / International)

Prof. Anuradha Chowdhary Invited speaker in 9th Trends in Medical Mycology, 11-14 Oct 2019, Nice, France on "Candida auris: In resource limited countries"

Meet the expert: at ASM Microbe, 2019, June 20-24, San Francisco, USA Topic: Candida auris: Epidemiology, Clinical features and management

Prof. Mandira Varma Basil

1. Moving towards Newer approaches for laboratory diagnosis of Tuberculosis. April 8, 2019. TB CME, SGPGI, Lucknow
2. Drug resistant Tuberculosis: mechanisms and diagnosis. July 26, 2019. UGC SAP programme. Dept. of Microbiology. Punjab University Chandigarh.
3. Molecular diagnosis of tuberculosis. Add on certificate course in Medical Biotechnology, Miranda House, University of Delhi, 22nd August 2019.
4. Diagnosis of drug resistant tuberculosis: Challenges faced in resource limited regions. 2nd International Summit on Microbiology, Immunology and Pathology 2019. 7-8th November 2019. Bangkok Thailand
5. An update. CME on Recent updates in Tuberculosis. 10th November 2019. Baroda Chest group.
6. Diagnosis of tuberculosis: A Microbiologists journey. 16th November 2019. NW Microcon at PGIMS, Rohtak
7. Serological assays in *Mycoplasma pneumoniae* infection. 2-5th December 2019 at NCCLS Pune

Posters presented from the department:

Kamal Shrivastava, Varsha Chauhan, Chanchal Kumar, Anupriya Singh, Mandira Varma-Basil, Development of real time assay for rapid identification of *Mycobacterium tuberculosis* and Nontuberculous Mycobacteria directly in sputum samples. Indian Association of Medical Microbiologist, Delhi chapter, 20th July 2019, at India Habitat center.

Extension and Outreach Activities:

Dr. Malini Shariff

- Supervised Ms Shavya Menon MSc Trainee from Amity Institute of Microbial Technology, Amity University Noida.: “Phenotypic and Molecular characterization of *Acinetobacter spp.* from clinical isolates.” January 2020- June 2020

Dr. Mandira Varma-Basil

- a) Sudhanshu Sharma MSc Trainee from GALGOTIAS UNIVERSITY, Noida, Uttar Pradesh.” December 2018 - May 2019.
- b) Sakshi Anand from Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi. December 2018 - May 2019
- c) Vishawjeet Barik from Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi. December 2018 - May 2019

Number of M.Phil/Ph.D. Degrees Awarded : 2

Faculty Strength : 4

MICROBIOLOGY ARMY HOSPITAL (R&R)

Major Activities and Achievements

The department has been actively involved in training activities of its own residents by hand on training in the everyday work as well as exposure to the research projects. The workshop organised on Tuberculosis was appreciated far and wide . The institute bagged two prizes at the annual IAMM Delhi chapter meet which was a thing of great pride for the department. The dept continues to work with full zeal

Awards and Honours

1. MAMC Award for best oral paper presentation in IAMM- Delhi chapter
2. 1st prize in PG quiz in IAMM- Delhi chapter

Publications in Journals

1. Kalra DK, Singh SP, Sahni AK, Grover N, Kumar M, Kalra D. Utility of phenotypic methods in detection of metallo-beta-lactamases in gram-negative bacteria. J Mar Med Soc 2020;22:18-24.
2. Shete VC, Grover N, Kumar M, Bhatt P. Phenotypic detection and molecular characterization of vancomycin-resistant enterococci. J Nat Sc Biol Med 2019;10:34-7.
3. Sidhu HS, Bahl A. Seroprevalence of TORCH infection in a tertiary centre. Indian Journal of Applied Research 2019.9(4):44-45.

Research projects undertaken

1. Detection of colistin resistance in gram negative bacteria
2. Role of KIR and KIR ligand interaction in the outcome of haploidentical haemopoietic stem cell transplantation

Departmental Research Projects undertaken

1. Detection of Plasmid mediated resistance in multidrug resistant Gram negative bacteria

Seminars organised

1. Workshop on Tuberculosis in Nov 2009

Presentations in conferences/seminars

1. Oral presentation by residents in IAMM
2. Oral presentation in IAMM- DC

NEONATOLOGY (LHMC)

Major Activities and Achievements

Dr. Sushma Nangia

- a. Invited for 'Platform Presentation of scientific paper at Paediatric Academic Societies (PAS) Annual International conference of Society for paediatric Research at Baltimore uSA.
 - b. Dr. Sushma nangia invited for 'platform presentation' on Impact of partnership on "KMCI Implementation" at LHMC at oslo norway during noReC partnership meeting.
2. Maheshwar Bhasin, Srishti Goel, Ishathapar, Mamta Sharma, Sushma nangia received best poster award at 5th International Congress, european Milk Bank association) at turin, Italy.

Dr. Somalikapal

- a. Awarded nnF Gold Medal for best paper at nnF neocon, Hyderabad.

Dr. SanjanaHs

- b. Awarded Shri pC Srivastava Memorial award for best resident in neonatology by LHMC alumni association

Dr. Sushmanangia

1. nominated as a member of International society for Research in Human Milk & lactation (ISRHMI).
2. Appointed "Visiting professor neonatology" at AIIMS Rishikesh.
3. expert for Faculty Selection in neonatology at various colleges across India.
4. external Member on special taskforce for IMR reduction for state of Jammu & Kashmir.
5. pAG member for stillbirth reduction – MoHFW, GoI.
6. national technical advisory group on newborn Health, MoHFW, GoI.
7. Member National Taskforce on Equipments specification for Neonatal Health, NHSRC, GoI.
8. Invited as newborn expert at niti Aayog for discussion on neonatal Health.

Dr. Vikramdatta

1. President NQOCN, India, Co-Chairperson, QICell KSCH.

Publications:

1. Nanda D, nangia S, thukral A, Yadav Cp. A new clinical respiratory distress score for surfactant therapy in preterm infants with respiratory distress. eur J pediatr. 2019 Dec 18. doi:10.1007/s00431-019-03530-5.
2. JainK,SankarMJ,nangiaS,BallambattuVB,SundaramV,RamjiS,etal.Causesofdeathinpretermneonates (<33 weeks) born in tertiary care hospitals in India: analysis of three large prospective multicentric cohorts. J perinatol. 2019; 39(Suppl 1):13-19.
3. Jain K, nangia S, Ballambattu VB, Sundaram V, Sankar MJ, Ramji S, et al. Goat lung surfactant for treatment of respiratory distress syndrome among preterm neonates: a multi-site randomized non-inferiority trial. J perinatol. 2019; 39(Suppl 1):3-12.
4. Verma p, Kapoor S, Kalaivani M, Vats p, Yadav S, Jain V, thelma BK. Science and engineering Research Board – newborn Screening Initiative Group (SeRB-nBS) members. An optimal capillary screen cut-off of thyroid stimulating hormone for diagnosing congenitalhypothyroidism:Data from a pilot newborn screening program in Delhi. Indian pediatr. 2019; 56:281-286.
5. Ramaswamy VV, nangia S, thukral A, Singh V. Rare neonatal interstitial lung disease masquerading as pulmonary hemosiderosis. BMJ Case Rep. 2019; 12.pii:e228398.
6. DawarR,nangiaS,thukralA,ChopraS,KhannaR.Factorsimpactingpracticeofhomekangaroootherzcare with low birth weight infants following hospital discharge. J trop pediatr. 2019; 65:561-568.
7. nangiaS,VadiveIV,thukralA,SailiA.earlytotalenteralfeedingversusconventionalenteralfeedinginstable very-low-birth-weight infants: A randomised controlled trial neonatology. 2019; 11:256-262.
8. pal S, Jain A, Chopra A, Singh M.A newborn with a changing rash neoreviews. 2019; 20:e740-e743.

Books/chapters

1. Nangia S, Yogesha Kn. preterm delivery. A neonatologist’s perspective’ for textbook ofperinatology.
2. Murugesan A, nangia S. Infant Feeding in Special situations. IAp textbook of IYCFchapter.

Journals Published/ Edited

1. Singh AK as co-author “National Technical Guidelines for management of H1N1 seasonal influenza 2019”. national Centre of Disease Control, Ministry of Health and Family welfare, Government of India.
2. Saroha D, Garg D, Singh AK, Dhamija RK, Irreversible neuropathy in XDR tB: An unfortunate clinical conundrum Indian Journal of tuberculosis, 2019. Doi.org/10.1016/j.ijtd.2019.11.012.

Research Projects:**Research Schemes/projects (with funding)**

Name of Investigators	Project Incharge	Title of Project	Name of the Funding Agency	Budget in rs.

Dr. S. nangia Dr. A. Saili Dr. VS Randhawa	Dr. Sushma nangia	Comparison of the efficacy of a 7 day versus a 14 day course of intravenous antibiotics in the treatment of uncomplicated neonatal bacterial sepsis: a multicenter randomized controlled non-inferiority trial	Indian Council of Medical Research	18,00,000
Dr. Sushma nangia Dr. Sonal Saxena Dr. Ravinder Kaur	Dr. Sushma nangia	neoAMR Global neonatal Sepsis observational Study (neoBS): A prospective Cohort Study of Sepsis In Hospitalised neonates	St Georges' university london UK	61,39,971
Dr. Sushma nangia Dr. Sonal Saxena	Dr. Sushma nangia	Born in the twilight of antibiotics: Implications of antibiotic use to the preterm infant respiratory microbiome and resistome development	Indo-norwegian cell for collaborative research ICMR	57,80,000

Conferences organized:

S. No.	Name of the Participant	Role	Organiser	Name, Venue & Date
International Conferences				
1	Dr. Sushma nangia	Indian Collaborator	noReC Norway	partner's Forum meeting by noReC, Norway 11th -16th Nov 2019
2	Dr. Sushma nangia	Indian Collaborator	Oslo University Hospital, Oslo, Norway	Invited for visit to OUH for finalizing 3rd phase of Indo-Norway exchange program 18th -23th Nov 2019
3	Dr. Sushma nangia	Seven Scientific papers, platform presentation	paediatric Academic Societies	pAS 2019, Convention Centre, Baltimore, USA 2nd-5th May 2019.

Faculty Strength: 7

NEUROLOGY (GIPMER)

The department provides outpatient and inpatient services including ICU care in various neurological conditions including stroke, epilepsy, headache, movement disorders (e.g. Parkinson disease), nerve muscle diseases, demyelinating diseases (e.g. Multiple Sclerosis), CNS infections, cognitive problems in both adult and paediatric population. 24 hour Neuro-ICU has ultra-modern state of the art facilities for patient monitoring. Diagnostic facilities like EEG, nerve conduction studies, Electromyography, evoked potential studies, repetitive nerve studies and polysomnography are available. The department also provides 24 hour emergency services to patients with acute neurological problems including thrombolysis in acute stroke. The department also runs comprehensive epilepsy care program that includes long-term VEEG monitoring and

various types of epilepsy surgeries. The Department provides training in post-doctoral degree (DM neurology) to six students every year. In addition, the department also participates in the teaching activities of the postgraduates, MD students (Medicine and Psychiatry) and M Phil students from University of Delhi.

Faculty

Professor : 2

Associate Professor: 4

RESEARCH SCHEME

a) ONGOING PROJECTS

Dr Debashish Chowdhury

1. Principal investigator in “A 12-week double-blind, randomized, multi-center study comparing the efficacy and safety of once monthly subcutaneous AMG 334 against placebo in adult episodic migraine patients (EMPOwER)”
2. Principal investigator in “The burden attributable to headache disorders in the general population: A community-based survey in National Capital Region”.
3. PI in Protocol 15Q – MC – CGAX A phase 3, randomized double blind placebo-controlled study of the efficacy and safety of Galcanezumab in patients with episodic migraine.
4. PI in Protocol H8H – MC – LAIJ(a) Randomized Controlled Trial of Lasmiditan over four migraine attacks).
5. PI in Hospital based stroke registry under ICMR.

Dr Sanjay Pandey

1. The Indian Movement Disorder Registry and Biobank: Clinical and genetic evaluation of movement disorders in Indian patients (DBT Funded)
2. Indian Collaborative Research Network on Wilson's Disease (iCROWD): Integrative Analysis of Wilson's Disease, understanding molecular genetics towards better diagnosis and therapy (Funded by CSIR)

Dr. Ashish Kumar Duggal

1. Co – investigator in Clinical trial titled “A 12-week double-blind, randomized, multi-center study comparing the efficacy and safety of once monthly subcutaneous AMG 334 against placebo in adult episodic migraine patients (EMPOwER).
2. Co – investigator in “The burden attributable to headache disorders in the general population: A community-based survey in National Capital Region”.
3. Co – investigator in Protocol 15Q – MC – CGAX A phase 3, randomized double blind placebo-controlled study of the efficacy and safety of Galcanezumab in patients with episodic migraine.
4. Co – investigator in Protocol H8H – MC – LAIJ(a) Randomized Controlled Trial of Lasmiditan over four migraine attacks).
5. Co – investigator in Hospital based stroke registry being conducted by ICMR.

TRAINING COURSE/CONFERENCES/WORKSHOP ORGANIZED

Dr Debashish Chowdhury

1. EEG Workshop (½day symposium) by US faculty at GIPMER on 31.5.19
2. MS Day Symposium (½ day symposium) by National faculty on 31.5.19
3. Migraine day celebration as a part of World Brain day on 22nd July, 2019
4. Course director of EPIQUEST (an international speaker program on Epilepsy) on 9.2.19
5. Course director of a “Headache symposium” in Jalandhar organized by IMA Jalandhar on 31st March, 2019
6. Course director of National Headache symposium organized by Asian Society of Continuing medical education and Headache Subsection of Indian Academy of Neurology, on 6th and 7th April, Kolkata

PUBLICATIONS:

Articles Published:20; chapters in books: 1; editor of books: 2

1. VISITORS:

1. Prof Tim Steiner from UK visited the department and analyzed the results of Headache Burden study
2. Prof Simon Hawke from Australia visited the department and gave a lecture on Treatment of MS
3. Dr Madhav Suri from US conducted a mini EEG workshop on 31.5.19
4. Dr Rebecca Clark from US conducted a mini EEG workshop on 31.5.19

SIGNIFICANT EVENTS (HONORS TO FACULTY):

Dr Debashish Chowdhury

1. Awarded “ State Award” given by the Government of NCT of Delhi for the meritorious services in the field of health care (Neurology) , 18th February, 2019
2. External examiner-ship for DM (Neurology) at Mumbai, Kolkata, Srinagar
3. Expert member on stroke at ICMR-NCDIR
4. PhD thesis evaluator at PGI Chandigarh

Dr Sanjay Pandey

1. Received travel grant to attend MDS International conference at Nice.

Dr Swapan Gupta

1. Awarded bursary and training in 17th International Course on Epilepsy: Brain Exploration and epilepsy surgery-4: Epilepsy surgery at Paediatric age at San Servolo, Venice, Italy
2. Awarded Indian Academy of Neurology (IAN) Travel Fellowship 2019

REPRESENTATION ON EXPERT COMMITTEE / BODIES

Dr Debashish Chowdhury

1. General Secretary of Delhi Neurological Association

2. Member of EC of Indian Academy of Neurology
3. Convener, Headache Subsection, Indian Academy of Neurology
4. Expert member on Stroke, ICMR
5. Expert member of SEC (Neurology and Psychiatry) at DCGI
6. Expert member of Delhi Medical Council
7. Inspector of MCI
8. External expert in UPSC
9. Theory paper evaluator and Moderator for question setting at AIIMS, JIPMER and DNB
10. Only Indian member of the prestigious “CGRP Forum on Education and Research”, UK.

Dr Sanjay Pandey

1. Selected as “Dystonia task force” member of International Parkinson and movement disorder society
2. Selected as “Stiff person task force” member of International Parkinson and movement disorder society

HEALTH SERVICES TO THE COMMUNITY:

Dr Debashish Chowdhury

1. Talk in DD on “Heart and Brain Attack” 9th April, 2019
2. Talk in DD (Good Evening India) on “Migraine” on 23rd July, 2019
3. Talk in DD Kisan on “Mental Illness” on 3rd August, 2019
4. Talk in DD News (Total Health) on 22nd September on Alzheimer’s Disease, 2019
5. All India Radio Interview on Facial Palsy on 28th November, 2019
6. Talk on DD National (Arogya Bharat) on Neurological diseases in Elderly on 9th December, 2019

Dr Swapan Gupta

1. 2-day comprehensive training in epilepsy of around 500 staff members including Medical officers, nurses, caretakers at Asha Kiran complex, home for mentally challenged persons, Rohini, Delhi under the Department of Social welfare, Govt. of NCT of Delhi.

NEUROSURGERY (GIPMER and associated Maulana Azad Medical College)

Major Activities and Achievements:

- 1 Academic classes, journal clubs, clinical case presentations, scientific paper publications, conferences presentations, Care of indoor and outdoor patients, thesis topics allocations and guiding them in the same, etc.
- 2 Dr Shaam Bodeliwala visited Yonsei University Health system in Seoul, South Korea for Neurointervention December 2019
- 3 Alumni Interactive educational activity :

Honours/Distinctions

- i. First prize in Quiz in skull base CME under aegis of SBSSI (Skull base surgery society of India) in August 2019 at AIIMS Rishikesh Dr Ritu
- ii. 3rd prize in poster presentation at SKULL BASECON 2019 " Morphometric analysis of C1 lateral mass in CVJ anomalies in relation to placement of lateral mass screws" Dr Ritu Gaur
- iii. 3rd prize in award paper presentation at SKULL BASECON 2019 "Post auricular presigmoid approach transpetrous approach for CP angle tumour" Dr Shaam

Publications Total Number: 13

Research Projects:

- 1 Assessment of surgical outcome in suboccipital approach for patients with tumors in pineal region.
- 2 Assessment of surgical outcome of clipping of intracranial aneurysms.
- 3 Study of factors predicting outcome in IDEM spinal cord tumors.
- 4 Morphometric study of bony and vascular structures in CVJ anomaly.
- 5 To study serum GFAP as a diagnostic and prognostic marker in patients of glioma. Factors affecting surgical outcome in trigeminal neuralgia following MVD
- 6 Assessment of neurocognitive functions in gliomas
- 7 Role of electrophysiological monitoring in brain tumours
- 8 Functional and surgical outcome study in cerebral aneurysms
- 9 Factors affecting outcome in NPH treated with programmable shunt
- 10 Study of validation of ACS-NCQIP score in geriatric patients undergoing neurosurgery
- 11 Role of PDGF receptors in different grades of glioma with department of Biochemistry MAMC Delhi
- 12 Association of paraspinal muscle morphology to functional outcome in patients undergoing spine surgery a prospective observational study
- 13 Association of sox 17 gene with cerebral aneurysm
- 14 Assessment of quality of life in operated patients of craniovertebral junction anomaly.
- 15 Study of clinico radiological features and its association with electron microscopic changes in intervertebral disc
- 16 To study white matter tract morphology and its association with clinical outcome following surgery
- 17 Assessment of correlation between xrc7 gene polymorphism and glioma a prospective observational study.

Seminars organized :

- 1 Dr RC Mishra, Professor and Ex HOD, Agra Medical College, Senior consultant Neurosurgery, RainBow Hospital, Agra—Hypertensive Intracerebral bleed

- 2 Dr RLS Sengar, Professor, Department of Neurosurgery, Gwalior—Role of digitalization in Neurosurgery
- 3 Dr Sushil Kumar, Ex HOD, Dean MAMC- Preparation for M.Ch examination
- 4 Dr Shakir Hussain, Director of department of Neurointervention, Zurich : endovascular management of stroke

Conferences Organized:

17th NSI Teaching course in October 2019

Seminar/Conference Presentations: Presentations by faculty and residents in various national and international conferences. Papers were presented by Dr D Singh, Dr A K Srivastava, Dr Anita Jagetia, Dr Hukum Singh, Dr Wajid Nazir, Dr Shamm Bodeiwala, Dr Ghanshayam Das singhal in various conferences Conferences attended by Faculty include NSI, NSSI, Indian society of cerebrovascular surgery, Skull Base society, DNA etc.

National/International MoUs Signed:

- 1 Workshop on Various drills and drilling techniques in cranial and spinal surgeries with Medtronic.
- 2 Microvascular anastomosis hands on workshop with johnsons & johnsons.

Other Inter-Institutional Collaboration

- 1 Inter-departmental meetings with various departments (ENT, Radiation oncology, Neurology, Neuropathology, Radiology ,etc) of Maulana Azad, GNEC, GIPMER.

Faculty Strength : 07

NEUROLOGY (LHMC)

Major Activities and Achievements

Dr. Rajinder K.dhamija

- a. nominated as Co-Chair, pG expert group,MCI.
 - b. Convener. Geriatric neurology Sub Section Indian academy of neurology.
 - c. Member editorial Board, World Journal ofneurosciences.
 - d. MCI Inspector for DM neurologyCourse.
 - e. nBe Inspector for DnB (neurology)Course.
 - f. Appointed PhD. examiner for university of Melbourne.
 - g. Delivered the Dr. BC Bansal and Mrs. uma Bansal oration on ‘Stroke Carepathways’:
1. Selected as World Federation of neuro Rehabilitation (WFnR) representative for the World Health organisation (WHO) Development Group for parkinson DiseaseRehabilitation.
 2. Selected as Member, Research ethics Board, Regional Institute of Medical Sciences (RIMS),Imphal.

Dr. Divyanigarg

- h. International Scholarship Award- Awarded by the American Academy of neurology for2019.
- i. Best paper in Movement Disorders (First prize)- Awarded by the Indian Academy of neurology for2019.
- j. Best poster (First prize)- Awarded by the Delhi neurologicalAssociation.
- k. Awarded the Indian Academy of neurology- Association of Indian neurologists in America (IAN-AInA) observership- epilepsy Centre, Cleveland Clinic,ohio.

Publications: Total Number 14____ (NATIONAL & INTERNATIONAL)

1. Anand KS, Aggarwal A, Garg J, Dhamija R K, Mahajan R K. Spectrum of neurological Complications in Chikungunya fever: experience at a tertiary care centre and review of literature. tropical Doctor (london) 2018; 2019 Apr; 49(2):79-84.
2. Srivastava A, Dhamija R K et al Diffuse Alveolar Haemorrhage due to plasmodium Vivax Malaria. lung India. 2019. Ahead of print. DoI: 10.4103/lungindia_543_19.
3. Divyani Garg, Rajesh patidar, RK Dhamija. letter by Garg et al. Regarding Article, “Vitamin D Status and Risk of Stroke: the Rotterdam Study”. Stroke 2019. 50:e430.
4. Deepika Saroha, Divyani Garg, Ashok Kumar Singh, Rajinder K Dhamija. Irreversible neuropathy in extremely-Drug Resistant tuberculosis: An unfortunate Clinical Conundrum- Indian Journal of tuberculosis. Doi:10.1016/j.ijtb.2019.11.012
5. DivyaniGarg,AyushAgarwal.Commenton“earlypresentationofurinaryretentioninmultiplesystematroph y: can the disease begin in the sacral spinal cord?” Doi:10.1007/s00415-019-09597-2.
6. Divyani Garg, Vishnu VY, Mamta B Singh, Vinay Goyal, MV padma Srivastava. Steroid responsive acute isolated ophthalmoplegia: A rare presentation of anti-GQ1b antibodies syndrome. Annals of Indian Academy of neurology- published online. Doi:10.4103/aian.AIAN_287_19
7. Divyani Garg, Rajinder K Dhamija. opsoclonus in Scrub typhus. Annals of Indian Academy of neurology- published online. Doi:10.4103/aian.AIAN_230_19
8. Ramesh Aggarwal, Divyani Garg, Rajinder K Dhamija. lithium-induced isolated lingual dystonia. Annals of Indian Academy of neurology- published online. Doi:10.4103/aian.AIAN_369_19
9. DivyaniGarg,DeeptiVibha,AwadhKishorpanidit,AchalSrivastava.neurosyphilispresentingAspureCerebellar Ataxia: An Atypical Manifestation. August 2019. BMJ Case Reports. Doi:10.1136/Bcr-2019-231058
10. Inderpuri, Divyani Garg, Achal Kumar Srivastava, lavleen Singh, Garima Shukla, Vinay Goyal. langerhans cell histiocytosis presenting with late onset cerebellar ataxia. August 2019. Movement Disorders Clinical practice.10.1002/mdc3.12830
11. Divyani Garg, Ayush Agarwal, Deepa Dash, Swati Mahajan, Rajesh Kumar Singh, Rohit Bhatia, Manjaritripathi. Rasmussen’s encephalitis presenting as progressive parietal Dysfunction Sans Seizures. August 2019. Seizure.10.1016 /j.seizure.2019.08.001
12. Ayush Agarwal, Divyani Garg, Vinay Goyal, Awadh Kishor pandit, Achal Kumar Srivastava, MV padma Srivastava. optic neuritis following anti-rabies vaccine. September 2019. tropical Doctor. 10.1177/0049475519872370
13. Divyani Garg, Ayush Agarwal. Reader Response: SuDep in the north American SuDep

Registry: the full spectrum of epilepsies. June 2019. neurology.
<https://n.neurology.org/content/early/2019/06/19/Wnl.0000000000007778>

14. Manjaritripathi, Divyani Garg. Malformations of cortical development and inverted hippocampal malformation:thequestionsraised.May2019.neurologyIndia.10.4103/0028-3886.258037.

Research Projects:

Name of Investigators	Project Incharge	Title of Project/Scheme
Dr. Rajinder K Dhamija	Dr. Zia Chaudhary	Functional visual parameters in Acquired Cerebral Visual Impairment
Dr. Rajinder K Dhamija	Dr. Anita panwar	Seasonal variation of Migraine Attacks in Indian population
Dr. Rajinder K Dhamija	Dr. Rubina Moolchandanaiph.D Candidate	Comparing the effect of statin use on neuro-cognition between middle-aged adults with and without mild cognitive impairment- A longitudinal pilot study

Seminars/Conferences Presentations (National/ International):

S. No.	Name of the Participant	Role	Name, Venue and Date
1	Dr. Rajinder K Dhamija	Faculty	21st Annual Conference of Delhi neurological Association & 17th neuro-nurses update Dr. Ambedkar International Centre, Janpath, new Delhi 2nd-3rd Feb 2019
2	Dr. Rajinder K Dhamija	Faculty	International Workshop on nerve Muscle Disorders Vardhman Mahavir Medical College & Safdarjang Hospital, new Delhi, 15th-17th Feb, 2019
3	Dr. Rajinder K Dhamija	Faculty	20th Joint Annual Conference of Indian epilepsy Society and Indian epilepsy Association new Delhi, 8th-10th Mar, 2019
4	Dr. Rajinder K Dhamija	Faculty	7th Annual Conference of Indian Federation of neurorehabilitation Mumbai, 19th-21st Apr, 2019
5	Dr. Rajinder K Dhamija	Faculty	neurocrition 2019 Indraprastha Apollo Hospitals new Delhi, 28th Apr, 2019
6	Dr. Rajinder K Dhamija Dr. Divyani Garg	Faculty	71st American Academy of neurology Annual Meeting philadelphia (uSA), 4th-10th May, 2019
7	Dr. Rajinder K Dhamija Dr. Divyani Garg	Faculty	World neurosciences Summit-II, J W Marriott, Aerocity, new Delhi, 23rd-25th Aug 2019
8	Dr. Rajinder K Dhamija	Faculty	the 3D Approach to Movement Disorders, new Delhi, 29th-31st Aug 2019
9	Dr. Rajinder K Dhamija Dr. Divyani Garg	Faculty	27th Annual Conference of Indian Academy of neurology Hyderabad 3rd-6th oct 2019
10	Dr. Rajinder K Dhamija Dr. Divyani Garg	Faculty	12th World Stroke Day Symposium new Delhi, 2nd nov 2019
11	Dr. Rajinder K Dhamija	Faculty	32nd Annual Conference & International Symposium of Indian

	Dr. Divyani Garg		Society for Atherosclerosis Research IHMC& SSKH new Delhi, 8th-10th nov 2019
12	Dr. Rajinder K Dhamija Dr. Divyani Garg	Faculty	WCn2019XXIVWorldCongressofneurologyDubai, united Arab emirates, 27th-31st oct2019
13	Dr. Rajinder K Dhamija	Faculty	27th Annual Conference of the Indian Association of Clinical Medicine, Gautam Budha university noida, 15th-17th nov 2019
14	Dr. Rajinder K Dhamija	Faculty	StrokeandneurovascularMastercalssAnVI2019 theWestinGurgaon,23rd-24thnov2019
15	Dr. Rajinder K Dhamija	Faculty	6th KSCH CMe in paediatrics-2019, Swarna Jayanti Auditorium IHMC& SSKH new Delhi, 8th Dec 2019
16	Dr. Divyani Garg	Faculty	Indian Academy of neurosciences Conference AIIMS, new Delhi, 18th-21st nov 2019

Faculty Strength: 2

Director Professor(1)
Assistant Professor(1)

OBSTETRICS & GYNAECOLOGY (UCMS)

Major Activities and Achievements

Department is academically very active despite heavy clinical load and has many publications in renowned journals. It is actively involved in various National programmes. We have fetched the prestigious SN Mukherjee Rotating Trophy again for best presentation in clinical meetings of Association of Obstetricians & Gynecologist of Delhi-AOGD in 2019 and the trophy has been awarded consecutively to the department in the last four years. Our faculty members have earned various honors & distinctions and won many awards & prizes in various national conferences for best paper / poster presentations and have been awarded prestigious fellowships. For post-graduate teaching & training programme, Dept. of Obs. & Gynae at UCMS is a preferred choice among other medical colleges in Delhi. The department organized several CMEs and workshops during this year. Our postgraduates Dr Surabhi and Neha Singh won best paper awards at the regional conferences held on Oct. and Nov. 2019. Dr Neha Singh and Dr Anandita also won the prize in AOGD quiz.

Honours /Distinctions

NAME	Honours / Distinctions/ Awards	DATE RECEIVED
Prof Amita Suneja	Chief Guest during workshop on practical tips on IUI, organized by ISAR Delhi branch,	21 July 2019
	Award of Excellence in Adolescent Health, by Sharda University during Youth Con	27 July 2019
	Chairperson - PNDT Act Advisory committee, Shahdara zone	2016 till date
	Head of the office for Obs Gynae, FMS, University of Delhi	22.3.2019
	Chairperson Oncology Committee AOGD	2019-2021
Rajaram Shalini	NOGS Oration 2019 'Surviving Ovarian Cancer' awarded by Noida Society for Obstetrics and Gynecology at the 19th NOGS Annual conference	21st July 2019

	6th Professor Malathy Memorial Oration, 'New Horizons in the management of Cervical Cancer' awarded by Calicut Obstetrics & Gynecology Society, Kerala	15th December 2019
	Best Reviewer Award, Indian Journal of Gynecologic Oncology, Springer,	2019
	Chair, ICMR Project Advisory Committee for the Task force study titled "Screening and Early Detection of Cervical, Oral and Breast Cancer, A demonstration project in Tata Tea Garden, Dibrugarh, Assam	2017 -2020
Srivastava Himsweta	Received Fellowship of ICOG (FICOG) at the ICOG Convocation at 63 rd AICOG 2020 at Lucknow UP.	1 st February 2020
Bindiya Gupta	Commonwealth Medical Scholarship in Gyn Oncology at Pan Birmingham Gyne Cancer Centre , Birmingham, UK Member AOGD oncology committee, FOGSI Oncology committee Executive member AOGIN, India	Award announced August 2019, Travel dates, 14 th March 2020-15 th September 2020
Rashmi	Received Fellowship of ICOG (FICOG) at the ICOG Convocation at 63 rd AICOG 2020 at Lucknow UP.	1 st February 2020
Guleria Kiran	DMA Chikitsa Ratan award at Doctor's day celebrations by Delhi Medical Association. Dr Usha Saraiya ICOG Oration on 'Ovarian Cancer-is environment to be blamed?' awarded by the Indian College of Obstetricians and Gynaecologists (ICOG)at Nagpur.	30 th June, 2019 3 rd Nov. 2019
Dr A,G,Radhika	2 nd Runner up FOGSI-Corion Award 2019 (Senior Category)	Dec 2019

1. Publications ,

1. Agarwal R, Priyadarshini P, Mehndiratta M. (2019). Serum procalcitonin in pregnancy-associated sepsis, A case control study. *S Afr J Obs Gynae.*, 25,15-9.
2. Agarwal R, Singh A, Radhika AG, Vats G. (2019) Surprisingly benign histopathology in a case of malignant looking ovary. *The New Indian Journal of OBGYN.*, 5,142-5
3. Agarwal R, Kumari N, Kar R, Chandra N, Nimesh A, Singh A, Radhakrishnan G(2019) Evaluation of placental VEGFA mRNA expression in preeclampsia, A case control study. *J Obstet Gynaecol India*,69,142-8.
4. Agarwal R, Jaiswal N, Kar R, Singh A, Srivastava H. (2020) Is serum fibrinogen an affirmative marker for vaginal delivery without PPH? *The New Indian Journal of OBGYN.*, 6(2), 113-8.
5. Bhanu Priya. (2019) Advanced ovarian pregnancy, an elusive diagnosis.. *Int J Reprod Contracept Obstet Gynecol.*,8(7),2878-2880
6. Boelig R, Corte LG, Ashoush S,D McKenna, G Saccone, S Rajaram (2019). Et al Oral progesterone for the prevention of recurrent preterm birth, systematic review and metaanalysis *Am J Obstet & Gynecol*, (1),50-62.
7. Dayal U, Gupta B, R Hariprasad, R Shriya, S Rajaram, Prasad B et al (2019). Comparison of the AV Magnivisualizer device with colposcopy to detect cervical intraepithelial neoplasia using the Swede scoring system. *Int I Gynaecol Obstet*, 147(2), 219-24.

8. Dev S, Singh A, Banerjee BD, Radhakrishnan G, Agarwal R. (2020) Assessment of maternal serum levels of vascular endothelial growth factor and placental growth factor in threatened abortion, A Case Control Study. *JCDR* . 14(1),QC16-QC18
 9. Guleria K, Sethi N. (2020). Herpes in Pregnancy, Review article. *J. Fetal Med.*, 7,49–55doi.org/10.1007/s40556-020-00241-
 10. Guleria K. (2020). Heavy Menstrual Bleeding (HMB) in adolescents- how doctors should approach it. *M3 India*, <http://www.m3india.in/contents> (editors pick/133987/heavy menstrual bleeding (hmb).
 11. Jain S, Chauhan D, Rajaram S, Gupta B (2019). Pelvic Lymphoma, An Elusive Diagnosis *Indian J of Gynecol Oncolog*,17(3),53 DOI, 10.1007/s40944-019-0287-0.
 12. Jindal M, Singh A, Arora VK, Bhoopathi HK. (2019) Silent Perforation of Pyometra Resulting in an Acute Abdomen, A Rare Entity. *Pan Asian J Obs Gyn*, 2(1),46-48.
 13. Kumari A, Rajaram S, B Gupta, M Kundan (2019). Assessment of a Combination of Clinical Maneuvers in Evaluation of Post-Laparoscopic Pain, A Randomized Clinical Trial. *J Obstet Gynecol India* 69, 444–50 <https://doi.org/10.1007/s13224-019-01224-4>.
 14. Kumari R, Singh A, Meena P. (2019) Serpentine vessels in abdominal wall—a challenge in opening of abdomen, a case report on pregnancy with portal hypertension, *International Journal of scientific research*,8(10),34-35
 15. Kumari R, Guleria K, Suneja A, Gam Ni, Meena P. (2019) Comparison of two rapid qualitative assays (beta–human chorionic gonadotropin and phosphorylated insulin–like growth factor binding protein–1) for prediction of preterm labour. *International Journal of Scientific Research* Vol. 8 (10), 36-38. DOI , 10.36106/ijsr
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16. Madaan N, Pandhi D, Sharma V, Bhattacharya SN, Guleria K, Mishra K, et al. (2019). Association of abnormal cervical cytology with coinfection of human papillomavirus and Chlamydia trachomatis. *Indian J Sex Transm Dis*, 40,57-63.
 17. Mahesh S , Srivastava H.(2019). A rare case report, successful outcome of a patient at near term pregnancy with maternal chronic obstructive hydrocephalus due to tubercular meningitis. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*. 8(11), Pg 4626-9.
 18. N Bhatla, S Rajaram, A Maheshwari. (2019). Implications for India and the LMICs. *Indian J Gynecol Oncolog*,17(4),<https://doi.org/10.1007/s40944-019-0346-6>.
 19. Neogi SB, Devasenapathy N, Singh R, et al. (2019) Safety and effectiveness of intravenous iron sucrose versus standard oral iron therapy in pregnant women with moderate-to-severe anaemia in India, a multicentre, open-label, phase 3, randomised, controlled trial. *Lancet Glob Health*, 7(12),e1706-e1716. doi,10.1016/S2214-109X(19)30427-9 (Sutapa B Neogi¹, Niveditha Devasenapathy², Ranjana Singh², Himanshu Bhushan³, Duru Shah⁴, Hema Divakar⁵, Sanjay Zodpey², Sunita Malik⁶, Smiti Nanda⁷, Pratima Mittal⁶, Achla Batra Meenakshi B Chauhan⁷, Sunita Yadav⁶, Harsha Dongre⁶, Sumita Saluja⁸, Vani Malhotra⁷, Anjali Gupta⁷, Roopa Sangwan⁷, A G Radhika⁹, Alpana Singh⁹, Sruti Bhaskaran⁹, Mrinalini Kotru¹⁰, Meera Sikka¹⁰, Sonika Agarwal⁹, Paul Francis¹¹, Kasonde Mwingak¹², Dinesh Baswal¹³)
 20. N Bhartia, S Jain, N Shankar, S Rajaram (2019). Effects of Antenatal Yoga on Maternal Stress and Clinical Outcomes in North Indian Women, A Randomised Controlled Trial. *JACM* 20(1), 10-14.
 21. Priyadarshini V. Singh A , Banerjee B D , Radhakrishnan. (2019) Association of serum and cervical tissue levels of organochlorine pesticides with cervical cancer in women of east Delhi, A case control pilot study. *Journal of SAFOG* ,11(3),190-193

22. Rajaram S, Puthiya Kulap S, B Gupta, VK Arora, AC Bhar (2019). Evaluation of Biomarkers p16/Ki-67 in Cervical Cytology for Diagnosis of Cervical Intraepithelial Neoplasia *Indian J Gynecol Oncolog*, 17(46) <https://doi.org/10.1007/s40944-019-0290-5>.
23. Rajaram S, Singh K, Gupta B, Gupta A, Jain S, Singla A. (2019). Gall Bladder Carcinoma Masquerading as Primary Ovarian Mass, A Case Report *Indian J of Gynecol Oncolog*. 17(2),<https://doi.org/10.1007/s40944-019-0285-2>.
24. Rajeshwari K, Guleria K, Suneja A, Gami N. (2019) Comparison of two rapid qualitative assays (beta-human chorionic gonadotropin and phosphorylated insulin-like growth factor binding protein-1) for prediction of preterm. *International Journal of Scientific Research*, Volume-8(10)
25. Singh A, Dev S, Banerjee BD. (2019)Assessment of maternal serum levels of vascular endothelial growth factor and placental growth factor in threatened abortion with or without sub-chorionic hematoma, *International journal of scientific research*,8(10) ,52-54.
26. Singh A, Gupta P ,Radhakrishnan G , Singh G, Radhika A G . (2020)Ruptured cerebral aneurysm in second trimester a rarely reported entity. *Indian Obstetrics & Gynaecology*, 10(1),32-34.
27. Singh A, Chauhan D, Radhika AG. (2019)Challenges in Management of Misplaced Intrauterine Devices, A Case Series and Review of Literature,*JCDR*. 13(10),QD03-QD05.
28. Singh S, Mehta S, Ravi TK, Singla A, Mann A.(2019) Collodion Baby, A Clinical Enigma *Indian J NMR*. 7(2),OC01-OC03.
29. Singh A, Jain S , Chaudhary A. (2019)Ruptured sex cord stromal tumor, A rare case report. *InternationalJournal of Clinical Obstetrics and Gynaecology*,3(5), 81-83.
30. Srivastava A,Gupta B,Singh S,Lakha V ,Rajaram S,Goel N. (2019) Knowledge and awareness of cervical cancer and its prevention amongst Nursing Staff in a Tertiary Care Hospital.*J South Asian Federation of Menopause societies.*, 7 (1),5-7
31. Srivastava H,Singh S,Srivastava S,Goel N. (2019) Contributory factors for Obstetric ICU admission,A prospective cross sectional study.*Journal of Clinical and Diagnostic Research*, 13(8),QC14-QC17
32. Suneja A, Jain S, Sikka M, Shikha, Guleria K, Srivastava A. (2019) Comparison of Ferric Carboxy Maltose injection with Oral Iron in the treatment of Post-Partum Iron Deficiency Anemia –A Randomized controlled Trial. *Ind Obstet Gynecol.*, 9(3), 12-18.
33. Srivastava H, Singh S, Srivastava S, Goel N. (2019) Contributory Factors for Obstetric ICU Admission, A Prospective Cross-sectional Study . *J Clin Diagn Res.*, 13(8),14-17.
34. Srivastava H, Rashmi, Shree S, Pal R . (2019). Postpartum Cases Referred to a Tertiary Care Hospital. *J. Evolution Med. Dent. Sci.* 8(46),3416-3421
35. Sharma R, Suneja A.(2019) Incarcerated & transmigrated intrauterine contraceptive devices managed at a tertiary care teaching hospital of east Delhi, a 5-year retrospective analysis. *J Obstet Gynec Ind*, 69(3), 272-278.
36. Suneja A, Jain S, Sikka M, Shikha, Guleria K, Srivastava A. (2019) Comparison of ferric carboxymaltose injection with oral iron in the treatment of postpartum iron deficiency anaemia– a randomized controlled trial. *Indian Obstet Gynecol*. 9(3), 12-18.
37. Thakur GK, Sharma T, Krishna Latha T, Banerjee BD, Shah HK, Guleria K.(2019) High Resolution based quantitative determination of methylation status of CDH1 and VIM gene in epithelial ovarian cancer. *Asian Pac J Cancer Prev*, 20 (10), 2923-2928.

38. Verma A K, Singh A, Dev S. (2019) Aphonia in pregnancy, Pulmonary TB with laryngeal involvement. *Indian J Obstet Gynecol Res* ,6(4),554-556

Chapter in books or manuals

1. Kiran Guleria, Bhanu Priya, and Archana Chaudhary.(2020) Vaginal Bleeding in Late Trimester in *Labour Room Emergencies*. Editor Alok Sharma. ISBN 978-981-10-4952-1 ISBN 978-981-10-4953-8 (eBook) <https://doi.org/10.1007/978-981-10-4953-8> © Springer Nature Singapore Pte Ltd.
2. Kiran Guleria, Richa Sharma. (2019) Breech. Eds Alok Sharma in *LaborRoom Protocols*. First edition
3. Rajaram S, Jindal M, Gupta B.(2020) “Gestational Trophoblastic Disease”. In *Case discussions in Obstetrics and Gynecology*. Jaypee Brothers Medical Publishers. Eds, YM Mala, Madhavi M Gupta, Asmita Rathore. Second edition
4. JainS, Kalra K.(2019)Contraception in medical disorders. *AOGD Bulletin*.
5. Sruthi Bhaskaran, Esha Gupta. (2020)Hypertensive disorders of pregnancy in Obstetric Algorithms in clinical practice *eds*, Alok Sharma, Jaypee Brothers Medical Publishers. First edition
6. Rajaram S, Bhanu Priya. (2019)Perioperative Management of Pregnant woman with Diabetes In *Clinical Guidelines for Management of Diabetes in Pregnancy*, eds , Saxena P, Pandey A, Prakash A, Jaypee Brothers Medical Publishers
7. Bhanu priya, Guleria Kiran.(2019) Vaginal bleeding in late trimester. In *Labour room emergencies*. Ed Alok Sharma. Springer publisher
8. Sruthi Bhaskaran, Abha Sharma. Evaluation of Amenorrhoea. (2020) *AOGD Bulletin*
9. Gupta B. Swine Flu (H1N1) and pregnancy. (2019) In “*Labour Room Emergencies*”. Ed. Alok Sharma. Springer publications Pages 127-132
10. Bindiya Gupta, Taruna Sharma. (2020) “Placental Adhesive Disorders”. In *Obstetrics Algorithms in clinical practice*. Editor Alok Sharma. Publisher Springer
11. BindiyaGupta, Harshiba Kaur. (2019) “Peripartum hysterectomy”.In *Postpartum Haemorrhage*. Editor Aruna Nigam. Publisher Evangel publications.
12. Bindiya Gupta. “Advances in Colposcopy”. (2019) In *Preventive Oncology for the Gynecologist*. Eds. Sumita Mehta, Anshuja Singhla.
13. Bindiya Gupta, Divya Chauhan. (2020) “Gynecologic Emergencies in children and adolescents “. In *Principles of Pediatric and Neonatal Emergencies* 4th ed. Editor Piyush Gupta. Jaypee Bothers Medical Publishers
14. Suneja A. Prasad B. (2020) Management of Postmenopausal Bleeding - A Review article. *AOGD Bulletin* vol 19 (11), 36-39.
15. Aggarwal R, Suneja A.(2020) Rhesus-Negative Mother. In, Sharma A. (eds) *Labour Room Emergencies*. Springer, Singapore, 2020,149-154
16. Singla A, Kumar A.(2019) Epidemiology of Breast Cancer, Current Figures and Trends. In, Mehta S, Singla A, editors. *Preventive Oncology for the Gynaecologists*, 1st ed. Singapore, Springer.
17. Singla A..(2019) Epidemiology and risk factors for Ovarian Cancer. In, Mehta S, Singla A, editors. *Preventive Oncology for the Gynaecologists*, 1st ed. New Delhi, Springer, 2019.

18. Kumar R, Singla A.(2019) Vaginal Cancer, Epidemiology and Risk Factors. In, Mehta S, Singla A, editors. *Preventive Oncology for the Gynaecologists*, 1st ed. New Delhi, Springer
19. Singla A. (2019) Epidemiology of fibroids. In, Rajaram S, Gupta B, editors. *Fibroids*, 1st ed. New Delhi, Evangel
20. Singla A, Charu Yadav. (2020) Meconium in *Obstetric Algorithms in clinical practice* eds, Alok Sharma, Jaypee Brothers Medical Publishers. First edition.

Books published

1. Mehta S, Singla A. (2019) *Preventive Oncology for the Gynecologists*, 1st ed. Singapore, Springer.

Research projects

Principal Investigator	Title of the Project	Years	Funding agency	Grant Rs.
Guleria Kiran	Delhi air pollution, health and effects (DAPHNE)- M-C Cohort (in collaboration with Sri Ramachandra University, Chennai, IIT, Delhi & Kanpur, AIIMS, New Delhi & INCLEN, New Delhi. a 4-year project started in September, 2018)	4 years	DBT	2 nd year grant funded through INCLEN
	To see the Effect of Obstructive Sleep Apnoea in North Indian Women with Polycystic Ovary Syndrome (OSA & PCOS study)in collaboration with AIIMS, New Delhi. (sanctioned in Nov. 2019)	3 years (patient recruitment postponed due to COVID-19)	DST	Rs 69 lacs
Rajaram Shalini	1.Enhanced recovery after surgery in open abdominal gynaecologic procedures, a randomised control trial (CTRI No, 2020/02/023431)	2 years	Not funded	
	2. Evaluation of surgical site infection bundles to decrease postoperative infectious morbidity in women undergoing emergency LSCS (CTRI No, 2019/01/017110)	2 years	Not funded	
	3. Implementation of surgical site infection prevention bundles in gynecological surgeries (CTRI, /2019/05/019083)	2 years	Not funded	
Bhanu priya	Implementation of Surgical Site Infection Prevention Bundle in Gynaecological Surgeries, A Quality Control Initiative	2 year	None	Nil
Pr. Investigator Suneja Amita Co Investigator Rashmi	Capacity building through HRRCs and teaching institutes to operationalize government guidelines for screening of common cancers (oral, breast and cervical) – ICMR Task Force study. Three-year project 2018-2021.	Three-year project 2018-2021.	ICMR	Rs 48 Lakhs

Conferences Organized

CONFERENCE/CME Organized	DATES
World population day CME	17.7.2020
Skill station training held for nurses and doctors	26.07.2020
CME “Master class in gynaecological oncology” at India International Centre	11.08.19
Precongress AOGD live workshop on Endoscopy, UCMS and GTB Hospital	27.9.2019
Workshop on endosuturing in mobile skill lab of J&J, at GTBH	14-15 Oct. 2020
Update on surgical wound management by Multidisciplinary Committee AOGD	07.09 2019

Faculty Strength

Director Professor : 3

Professor : 1

Associate Professor : 8

Assistant Professor : 4

Other Significant Information

Faculty of the Department is invited as experts in various academic bodies namely MCI, UPSC, DMC, NBE, FOGSI, AOGD, AOGIN and the Department has held the office of various associations namely AGOI, AOGIN India, NARCHI & AOGD. The faculty has been in prime positions in these associations and discharged their duties with great responsibility. The faculty is also invited nationally to deliver lecture and share their expertise in various academic conferences of repute. UCMS is the first choice of the Postgraduates during the counseling.

OBSTETRICS AND GYNECOLOGY (LHMC)

Major Activity and achievements

Department of Obstetrics and Gynecology is among the most academically and clinically active Department of LHMC, In the year 2019 - 20, there are 8 ongoing research projects, 16 postgraduate thesis were submitted, 21 seminars, symposia, public awareness programs were organized, and there were 37 publications in indexed journals. Dr Abha Singh gave AOGD Past President Oration on “Maternal Mortality and Near Miss: Steps for reduction” and Dr Manju Puri delivered Keynote address on Obstetric Care through the Prism of Quality at the 41st Annual Conference of AOGD on 29th September 2019. Dr Manju Puri delivered Mrs Lilawati Bhandari Oration on Antimicrobial Resistance: Smart use of Antibiotics on 23rd Nov 2019 in Annual Conference NARCHI Delhi, she was selected as PI by NITI Aayog to lead a pilot study of UK India project Healthcare Artificial Intelligence Catalyst (HAIC RELX) Elseiver.

Publications

- 1) Agarwal K, Ritu, Singh A, Singh A, Mishra A. Obstetrical outcome of pregnancy complicated with first trimester bleeding and subchorionic hematoma. *Int J Reprod Contracept Obstet Gynecol* 2020;9:23-7.
- 2) Agrawal S, Singh A, Biswas R, Singh A. Retrospective review of maternal deaths and maternal near misses due to Major Obstetric Haemorrhage (MOH) at a tertiary care centre in India. *Int J Reprod Contracept Obstet Gynecol*.2019 Aug;8(8):3431-3434.
- 3) Agrawal S, Monika M, Pathak P, Kaur H, Chopra K and Trivedi SS. Breastfeeding Practices among Women in Delhi: A Cohort Study. *Perception in Reproductive Medicine*. 2019.3(3).PRM.000564.2019.DOI:10.31031/PRM.2019.03.000564
- 4) Agrawal A, Puri M, Anand R, Singh R A Study of Non-Alcoholic Fatty Liver Disease in Women with Poly Cystic Ovarian Syndrome *J Assoc Physicians India*. 2020 Jan; 68(1): 97
- 5) Akoijam Tanphasana, Reena Yadav, Amita Yadav.2020.Study of maternal serum lipid profile and apolipoprotein A levels and its correlation with fetal growth restriction.*Int J of Reproduction ,Contraception,Obstetrics and Gynaecology*;9(1) :270-273
- 6) Arora A¹, Kumar A¹, Anand AC², Puri P¹, Dhiman RK³, Acharya SK², Aggarwal K⁴, Aggarwal N⁵, Aggarwal R⁶, Chawla YK², Dixit VK⁷, Duseja A³, Eapen CE⁸, Goswami B⁹, Gujral K¹⁰, Gupta A¹¹, Jindal A¹², Kar P¹³, Kumari K¹⁴, Madan K¹⁵, Malhotra J¹⁶, Malhotra N¹⁶, Pandey G⁶, Pandey U¹⁷, Puri RD¹, Rai RR¹⁸, Rao PN¹⁹, Sarin SK¹², Sharma A²⁰, Sharma P¹, Shenoy KT²¹, Singh KR²², Singh SP²³, Suri V⁵, Trehanpati N¹², Wadhawan M²Position statement on liver disease in pregnancy *J Clin Exp Hepatol*. 2019 May-Jun;9(3):383-406. doi: 10.1016/j.jceh.2019.02.007. Epub 2019 Mar 6
- 7) Baliyan M, Kumar M, Nangia A, Parakh N. Can RBC Indices be Used as Screening Test for Beta-Thalassemia in Indian Antenatal Women?*J Obstet Gynaecol India*. 2019;69(6):495–500. doi:10.1007/s13224-019-01220-8
- 8) Hiya Agrawal, Kiran Aggarwal, Anju Jain. Visceral adiposity index: Simple Tool for assessing cardiometabolic risk in women with polycystic ovary syndrome. *Indian J Endocr Metab*.2019;23:232-7
- 9) Isha, Lal P,Dutta V,Kaushal A. A prospective observational study of fetomaternal outcome in 2nd stage Caesarean section. *Int. J of Reprod contracept obstet gynecol*. 2019 Dec;8(12):4798-4802
- 10) Kiran Aggarwal, Anita Yadav. Role of Transvaginal Ultrasonographic Cervical assessment in predicting the outcome of Induction of Labor. *Int J Reprod Contracept Obstet Gynecol*. 2019;8:628-36.
- 11) Kwatra D, Kumar S, SinghGB, Biswas R, Upadhyay P. Does hearing loss relate to gestational diabetes mellitus. *Int J Otorhinolaryngol Head Neck Surg*.2019 Sep;5(5):1244-1248
- 12) Kwatra D, Kumar S, Singh GB, Biswas R, Upadhyay P. Can Pregnancy lead to changes in Hearing Threshold. *Ear, Nose & Throat Journal* , 2019 July:1-4. DOI: 10.1177/0145561319871240, journals.sagepub.com/home/ear
- 13) Kumar M, Singh A, Garg R, Goel M, Ravi V. Hypertension during pregnancy and risk of stillbirth: challenges in a developing country [published online ahead of print, 2019 Dec 25]. *J Matern Fetal Neonatal Med*. 2019;1–7. doi:10.1080/14767058.2019.1702943

- 14) Kumar M, Gupta A, Kumar V, Handa A, Balliyan M, Meena J, Roychoudhary S. Management of CHAOS by intact cord resuscitation: case report and literature review. *J Matern Fetal Neonatal Med.* 2019 Dec;32(24):4181-4187.
- 15) Megha Kansara, Reena Yadav. Multi Dose Regimen of Injection Methotrexate for management of Early caesarean scar Ectopic pregnancy-conservative approach. *International Journal of Science and Research*2019;8(1): 1947-1950
- 16) Megha Kansara, Reena Yadav.2020 Role of Ultrasonic assessment of cervical length and Amniotic fluid index in predicting delivery latency period following preterm premature rupture of membranes *International J of Science and Research ;9:852-855*
- 17) Mishra J, Tomar A, Puri M, Jain A, Saraswathy KN "Trends of folate, vitamin B12 and homocysteine levels in different trimesters of pregnancy and pregnancy outcomes" *American Journal of Human Biology* 2020 <https://doi.org/10.1002/ajhb.23388>
- 18) Mishra J, Talwar S, Kaur L, Chandio K, Yadav S, Puri M, Sachdeva MP, Lakshmy R Saraswathy KN Differential global and MTHFR gene specific methylation patterns in preeclampsia and recurrent miscarriages: A case -control study from North India Accepted for publication in *Gene* 704 (2019) 68–73 <https://doi.org/10.1016/j.gene.2019.04.036>
- 19) Nishtha Jaiswal, Reena Yadav, Astha Srivastava. Wernicke's Encephalopathy Presenting as hyperemesis gravidarum: Keys to successful outcome. *J. of case reports*2019;9(4)211-213
- 20) Nishtha Jaiswal, Harsha Khullar, Geeta Mediratta, Sharmistha Garg. Successful maternal and fetal outcome in a patient with chronic myeloid leukemia on chemotherapy. *Int J Reprod Contracept Obstet Gynecol.* 2020 Feb;9(2):832-834
- 21) Prabha Lal, Kiran Aggarwal Abha Singh. Romesh Lal surgical malignancy presenting as Gynecological emergency *Journal of case reports* 2019;9(4):220-223
- 22) R Ransing, P Kukreti, S Deshpande, ...M Puri P Kumari Perinatal depression–knowledge gap among service providers and service utilizers in India, *Asian Journal of Psychiatry* 47 (2020) 101822 <https://doi.org/10.1016/j.ajp.2019.10.002>
- 23) Reena Yadav, Astha Srivastava. Intractable Dysmenorrhoea in Adolescent: A series of two cases of Laparoscopic Rudimentary horn excision. *Journal of case reports* 2019;9(1):15-18
- 24) Reena Yadav. Oral Antidiabetic Agents in Diabetic Pregnancy-Current Status. *Journal of Delhi Diabetic forum*2019;28(2):83-85
- 25) Reena Yadav, Astha Srivastava. 2020. A rare case of Toxic epidermal necrolysis in pregnancy. *Int J of Reproduction contraception, Obstetrics & Gynaecology.* 9(2):846-849
- 26) Shanker M, Jain M, Puri M Rare case of uterine haemangioma *International Journal of Scientific Research* Volume-8 | Issue-11 | November 2019 [http:// DOI : 10.36106/ijsr](http://DOI:10.36106/ijsr)
- 27) Singh A, Kumar M. An Analysis of Cause of Stillbirth in a Tertiary Care Hospital of Delhi: A Contribution to the WHO SEARO Project. *J Obstet Gynaecol India.* 2019;69(2):155–160. doi:10.1007/s13224-018-1161-1
- 28) Swati Agrawal, Kiran Aggarwal, Anjali Singh, et al. 2019. Twin pregnancy with complete hydatiform mole and coexisting live fetus: A rare case report. *O J Gyencol Obset Res.* 1: 31- 34
- 29) Swati Agrawal, Kiran Aggarwal, Manvi Dua, Ritika Choudhary, Alisha Sethi Retained Intrauterine Fetal Bone Fragments as a Cause of Abnormal Uterine Bleeding: An Unusual Case Report

presentation Archives of Reproductive Medicine and Sexual Health ISSN: 2639-1791 Volume 2, Issue 2, 2019, PP: 29-31

- 30) Saxena P, Soni R, Randhawa VS, Singh N. Can Seminal IL-8 Level Be Used as a Marker of Leukocytospermia and Does It Have Any Correlation with Semen Parameters in Infertile Couples? *J Obstet Gynaecol India*. 2019 Oct;69(5):451-456. doi: 10.1007/s13224-018-1188-3. Epub 2018 Nov 23.
- 31) Nigam A, Saxena P. Caesarean Section on Demand: Dilemma Between Ethics and Autonomy. *Pan Asian J Obs Gyn* 2018; 1(2): 51-53
- 32) Saxena P, Pandey N. Hyperandrogenism- approach and management. *Fertil Sci Res* 2019;6:16-22
- 33) Tarini Sonwani, Ratna Biswas. Comparing the degree of pelvic pain with the macroscopic features of endometriosis. *Int J Reprod Contracep Obstet Gynecol* 2019 June ;8(6):2421- 2424
- 34) Tomar A, Puri M, Mishra J, Jain A. Association of First Trimester Vitamin B12 Status with serum Homocysteine Levels in Pregnancy. *Pan Asian J Obs Gyn* 2019;2(3):106-109.
- 35) Umarwal T, Kumar M. Reference Centile Chart of Fetal Cerebroplacental Doppler from 24 to 40 Weeks Gestation in Indian Population. *J Obstet Gynaecol India*. 2019;69(4):339–343. doi:10.1007/s13224-019-01238-y

Journals

Dr Manju Puri

- Member Editorial Board of Indian journal of Health Sciences and Care published by SGT University Gurugram
- Executive Editor of Pan Asian Journal of Obstetrics & Gynecology (PAJOG)
- Guest Editor World Clinics in Obstetrics and Gynecology: Anemia: Volume 6, Number 2 M Arora, S Arulkumaran, M Puri – 2019 Jaypee Publications

Dr Pikee Saxena

- Editor of Journal of the Delhi Diabetic Forum.
- Editor of the Newsletter of the Delhi Diabetic Forum
- Senior Executive Editor, Indian Journal of Medical Specialities.

Research project Ongoing :

Project Incharge	Name of investigators	Title of the Project scheme	Name of the funding agency	Budget in Rs.
Research projects with funding				
Dr Manju Puri		UKDIT 2019 /1 year / “A Feasibility Study to assess the usability, usefulness and value addition of Elsevier’s “Arezzo®” - an active Declarative AI clinical decision support system and	UKDIT	£27005/-

		pathway technology that empowers personalized care delivery in Indian Healthcare Settings”		
Dr Pikee Saxena	Dr Jayshree Bhattacharjee Dr. Anju Jain Dr. R. M. Pandey Dr. Anupam Prakash	A Randomized control trial to compare the efficacy of N Acetyl Cysteine and Metformin therapy on insulin resistance of infertile women with polycystic ovary syndrome along with clomiphene citrate.	ICMR	Rs. 34,06,669
Dr Manisha Kumar	Dr Abha Singh Dr Ekta Debnath Dr Shalini Singh	Study of serial change in placental profile and its role in prediction of hypertension in pregnancy	DHR – ICMR under GIA scheme	Rs 56,00,000/-
Dr Manisha Kumar	Dr Ekta Debnath Project Advisors Dr Manju Puri Dr Ritu Singh	Establishment of NIDAN kendra under the UMMID initiative	DBT	Rs 4,58,04,800/-
Non-funded projects				
Dr Abha Singh	Dr Manisha Kumar Nodal officer	WHO- SEARO NNPD Project on stillbirth, through Safdarjung Hospital as regional centre	WHO SEARO to Safdarjung Hospital	Salary given by SJH
Dr. Prabhat	Dr. Anju Jain Dr. Pikee Saxena	To determine the predictability of gestational diabetes mellitus(GDM) during the first trimester using biochemical parameters and anthropometric measurements		
Projects other than research projects				
Dr Manju Puri	Dr Pikee Saxena- Nodal Officer	National Skills Lab, LHMC	MOHFW	Rs. 28,85,057

Seminar organized

Total number - 19

Details

S. No.	Faculty Member	Organizer(s)	Name, Venue & Date
1.	Chairperson – Dr Abha Singh Organizing Secretary- Dr Kiran Aggarwal	AOGD & Dept of OB/GYN LHMC	Monthly clinical meeting of AOGD and handing over ceremony of AOGD on 5 th April, 2019 at ME Hall, LHMC
2.	Chairperson Dr Abha Singh Organizing Secretary Dr. Reena Organising Joint Secretary Dr Nishtha Jaiswal	Dept of OB/GYN LHMC	Public forum on Swachhta Pakhwada organized by Dept Of Obstetrics and Gynaecology, 10 th April 2019
3.	Chairperson – Dr Abha Singh Organizing Secretary-	Indian Menopause society Delhi	CME on Managing Midlife-Ageing Gracefully at Jaypee hotel, New Delhi, 8 th June 2019

	Dr Kiran Aggarwal Organising Joint Secretary- Dr. Vidhi Chaudhary	chapter, Medical Education Committee FOGSI & Dept of OB/GYN LHMC	
4.	Chairperson – Dr Abha Singh Organizing Secretary Dr Swati Agrawal	Dept of OB/GYN LHMC	Public awareness forum on World population day, 10 th & 11 th July 2019 at Gynae OPD, LHMC & SSK Hospital, New Delhi. CME and workshop on Contraception with Poster Competition, ME hall, SJ Auditorium, LHMC, 19 th July 2019
5.	Chairperson-Dr Abha Singh	Dept of Obst & Gynae	CME on thyroid disorder in pregnancy in seminar room, Dept of Obs and Gynae LHMC on 17 th August 2019
6.	Chairperson – Dr Abha Singh Organizing Secretary- Dr Manisha Kumar Organising Joint Secretary- Dr Shilpi Nain & Dr Nishtha Jaiswal	Department of Obstetrics and Gynaecology under the aegis of SFM – AOGD & MEC FOGSI	41 st AOGD Pre-congress workshop on Quality in First trimester screening on 26 th September 2019 held at MEU LHMC New Delhi. Live demonstration of First trimester ultrasound done.
7.	Chairperson-Dr Abha Singh Organizing Secretary- Dr Pikee Saxena Organising Joint Secretary- Dr. Deepika Meena	Dept of Obst & Gynae	CME on Diabetes in pregnancy at Swarn Jayanti Auditorium LHMC on 15 th Nov 2019
8.	Chairperson-Dr Abha Singh Organizing Secretary- Dr Ratna Biswas	Integrated District Health Society, New Delhi District in collaboration with Dept. of Obst & Gynae LHMC & SSK Hospital	Workshop on Maternal Death Surveillance & Response (MDSR) at Medical Education Hall, S J Auditorium, LHMC on 20 th November, 2019
9.	Chairperson-Dr Abha Singh Organizing Secretary Dr. Reena Organising Joint Secretary- Dr Nishtha Jaiswal	Dept of Obst & Gynae	Symposia on Prevention of Parent to child transmission, Seminar room Dept of Obst & Gynae, LHMC on 28 th Nov 2019
10.	Chairperson-Dr Abha Singh Organizing Secretary- Dr. Reena Organising Joint Secretary- Dr Nishtha Jaiswal	Dept of Obst & Gynae	Public forum on PPTCT in ANC OPD, Dept of Obst & Gynae, LHMC on 27 th & 28 th Nov 2019
11.	Chairperson – Dr Manju Puri	HAROBGYN	Conducted a sensitization workshop on Point of Care Quality Improvement on 14 th April 2019 at Gurgaon at the launch of ABHILASHA
12.	Chairperson – Dr Manju Puri	CNE, LHMC	23 rd April 2019 at LHMC Delhi
13.	Chairperson- Dr Manju Puri	CNE LHMC	Workshop on PPH on 24 th July 2019 at LHMC Delhi

14.	Chairperson- Dr ManjuPuri	QI subcommittee AOGD and WHO collaborating centre on human reproduction AIIMS, New Delhi	Workshop on QI: “How to fix problems” at MEU, SJ Auditorium LHMC on 28 th July, 2019
15.	Chairperson- Dr ManjuPuri	AOGD	Organized a CME on Delivering the best to Infertile couples: A Quality improvement initiative jointly with Infertility committee of AOGD at Fortis Hospital Shalimar Bagh Delhi on 28 th Aug 2020
16.	Chairperson- Dr ManjuPuri	QI committee of AOGD and WHO CC AIIMS, New Delhi	Conducted Workshop on POCQI at MAMC Delhi on 16 th Nov 2019
17.	Chairperson- Dr ManjuPuri	GOI Laqshya mentorship Expert GP	Conducted Workshop on LaQshya POC QI at Calcutta National Medical College and Hospital Kolkata on 6 th Nov 2019 , PGIMS Rohtak on 20 th Nov 2019 & AIIMS, New Delhi on 16 th Dec 2019
18.	Chairperson- Dr ManjuPuri	Infertility & QI committee AOGD	Organized a CME on Delivering the best to Infertile couples: A Quality improvement initiative jointly with Infertility committee of AOGD at Ambedkar Hospital Delhi on 11 th Jan 2020
19.	Chairperson – Dr Kiran Aggarwal Organizing Secretary- Dr Anuradha Singh	Indian Menopause society Delhi chapter & Dept of OB/GYN LHMC	CME on “Menopausal bone Health” on 18 th October 2019 ME Hall LHMC

National and international MOU Signed

1. Between LHMC and UKDIT

Inter- intitutional collaboration

1. Collaboration with Elsevier and Piramal Swasthya Management and Research Institute

Extension and outreach services

Working on a NITI Aayog led project funded by UK DIT to test UK India Healthcare Artificial Intelligence catalyst at Bahriach UP

Faculty Strength

Director Professor : 5
Professor : 4
Associate Professor : 7
Assistant Professor : 5

OBS AND GYNAE ARMY HOSPITAL (R&R)

Major Activities and Achievements

The department has been carrying out teaching activities across Delhi not only for PG students but also for other gynecologists. The department is involved in research work and has numerous publications in last year. The department has also done outreach programmes.

Awards and Honours

Mr. S Bhattacharya & Dr Ganguli's Gold Medal – 42nd Annual Conference of Association of Obstetricians and Gynaecologists of Delhi Title "Our initial experience with chromosomal microarray in fetuses with structural abnormalities" - Awarded to Dr Reema Kumar Bhatt

Publications in Journals

1. Sanjay Kumar Sharma, Reema Kumar Bhatt, Anupam Kapur, Shakti Panda. Clinical study comparing outcome of post in vitro fertilisation triplet pregnancy reduced to twins versus non reduced in vitro fertilisation triplet pregnancies .International Journal of Reproduction, Contraception, Obstetrics and Gynecology 2019 Nov;8(11): 2320-1789
2. Naresh Dhawan, Rohin Kumar, Reema Kumar Bhatt. Cardiac disease and pregnancy: hyper vigilance and extreme caution for optimal outcome. International Journal of Reproduction, Contraception, Obstetrics and Gynecology 2020 Feb;9(2):82
3. Reema Kumar Bhatt, Shakti Panda, Triptpal Kaur .Pregnancy and delivery of a women with Von Willebrand disease type 3: a case report .International Journal of Reproduction, Contraception, Obstetrics and Gynecology 2020 Feb;9(2):881-883
4. Triptpal Kaur, Reema Kumar Bhatt. The predictive role of color doppler sonography in evaluating hypoxia and acidosis in intrauterine growth restriction fetuses: correlation with arterial blood gas analysis .Int J Reprod Contracept Obstet Gynecol. 2020 Mar;9(3):1119-1123.
5. R. K. Bhatt, M. Agarwal.Study of Spectrum of Chromosomal Rearrangements in Recurrent Pregnancy Loss . J ObstetGynecol India (2020). <https://doi.org/10.1007/s13224-020-01305-9>.
6. Sanjay Kumar Sharma, Reema Kumar Bhatt, Anupam Kapur, Shakti Panda. Clinical study comparing outcome of post in vitro fertilisation triplet pregnancy reduced to twins versus non reduced in vitro fertilisation triplet pregnancies .International Journal of Reproduction, Contraception, Obstetrics and Gynecology 2019 Nov;8(11): 2320-1789
7. Naresh Dhawan, Rohin Kumar, Reema Kumar Bhatt. Cardiac disease and pregnancy: hyper vigilance and extreme caution for optimal outcome. International Journal of Reproduction, Contraception, Obstetrics and Gynecology 2020 Feb;9(2):82
8. Reema Kumar Bhatt, Shakti Panda, Triptpal Kaur .Pregnancy and delivery of a women with Von Willebrand disease type 3: a case report .International Journal of Reproduction, Contraception, Obstetrics and Gynecology 2020 Feb;9(2):881-883
9. Triptpal Kaur, Reema Kumar Bhatt. The predictive role of color doppler sonography in evaluating hypoxia and acidosis in intrauterine growth restriction fetuses: correlation with arterial blood gas analysis .Int J Reprod Contracept Obstet Gynecol. 2020 Mar;9(3):1119-1123.

10. R. K. Bhatt, M. Agarwal. Study of Spectrum of Chromosomal Rearrangements in Recurrent Pregnancy Loss. *J ObstetGynecol India* (2020). <https://doi.org/10.1007/s13224-020-01305-9>.
11. Rajesh Sharma, Satyabrato Chatterjee, Anupam Kapur Subhendu Pandit. To study the effect of tranexamic acid in early pregnancy bleeding in post IVF pregnancies: a prospective observational study. *International Journal of Current Advanced Research*. Volume 8; Issue 11 (C); November 2019 Page No.20494-20497
12. Anupam Kapur, MD, DNB, Shazia Khan, MS, DNB, and Sanjay Sharma, MD. Osseous Metaplasia of Endometrium: The Bony Womb and Its Hysteroscopic Management. *Journal of gynecologic surgery* Volume XX, Number XX, 2020

Editorial board of Journals

1. Joint Editor of Journal of Fetal Medicine - Dr Reema Kumar Bhatt

Seminars organised

1. AOGD –Monthly Clinical Meeting at Army Hospital Research and Referral on 30 Aug 2019

Conferences organised

1. Second Quarterly meet of Society of Fetal Medicine under the Aegis of AOGD at Army Hospital Research and Referral on 10 Nov 19 - Fetal urinary system :Congenital anomalies and complete evaluation

Presentations in conferences/seminars

1. Third quarterly meeting 2018-2019 delhi chapter SFM , Organised by Dept of Obs&Gyn AIIMS under Aegis of AOGD. Understanding Dopplers in Obstetrics 28 April 2019 - Speaker Late Onset Growth Restriction Col Reema Kumar Bhatt
2. Workshop on Basics in fetal medicine organized by Fetal Medicine SubDivision in AIIMS 01 May 2019 Speaker Soft Markers – Role of genetic sonogram Col Reema Kumar Bhatt
3. Gurukul classes organized under of Aegis of ISOPARB, FOGSI, ICOG & AOGD ORGANISED BY INSTITUTE OF OBSTETRICS & GYNECOLOGY, Sir Gangaram Hospital, New Delhi 21 June - Vaginal Birth after Cesarean section Col Reema Kumar Bhatt
4. Fetal Cardiocon 2019. The Science and Art of the fetal heart Society of Fetal Medicine Leela Ambience, Gurugram 23-25 Aug 2019 - Speaker Maternal Obesity and the Fetal Heart – Clinical Considerations Col Reema Kumar Bhatt
5. COMMON DILEMMAS IN FETAL MEDICINE. VMMC & Safdarjung Hospital. Organised by Department of Obst & Gynae VMMC & Safdarjung Hospital. Col Reema Kumar Bhatt
6. Safe Motherhood Committee AOGD NARCHI Delhi 29th July 2019 Speaker Making sense of soft markers in second trimester - Col Reema Kumar Bhatt
7. 22nd Practical course & CME in Obstetrics & Gynaecology at the Maulana Azad Medical College from 11th-13th October, 2019 Faculty Case of Fetal Growth Restriction - Col Reema Kumar Bhatt
8. Dec 2019 Speaker “Prediction & Prevention of Pre- Eclampsia :Are we there?” - Col Reema Kumar Bhatt

9. 63rd All India Congress of Obstetrics & Gynecology .Hosted by Lucknow Obstetrics and Gynecological Society 29 Jan -02 Feb 2020 Chairperson Workshop on “Managing Fetus at Risk”- Col Reema Kumar Bhatt

Extension and outreach activities

1. Half day Outreach program was held in Miranda House College, on 13th Feb 2020 The agenda was awareness on thalassemia screening, use and misuse of ultrasound with respect to declining sex ratio, anemia, contraception. There were 85 participants.-Col Reema Kumar Bhatt

OPHTHALMOLOGY (MAMC)

Major Activities and Achievements

The faculty of GNEC guided research thesis of post graduate students.

Dr Kirti Singh trained faculty & residents in medical education technologies and microsurgical skills. She worked in empathetic communication and surgical innovations to improve glaucoma surgery outcomes. She also initiated a very successful mental health awareness programme providing counseling, to empower stressed COVID warriors. She undertook an annual glaucoma training activity in the form of Prevention of steroid induced glaucoma drive in collaboration with Community medicine department.

Dr Meenakshi Thakar was instrumental in shortening the waiting time in retina clinic by streamlining the clinic and in acquiring new equipment for improving the quality of patient care.

Dr. Punita Kumari Sodhi became head of the Retina Clinic-II. She completed her training in vitreo-retina surgery under National Programme for Control of Blindness under Ministry of Health w.e.f. Sep 01, 2019 to Nov 30, 2019. For National Board of Examination, she did onsite assessment of answer sheets DNB Final Theory examination; acted as Paper setter for framing NBE MBBS exit level MCQ question paper and evaluated five thesis of DNB Ophthalmology. She conducted MCI inspection for Assessment of physical and other teaching facilities at Maharaja Institute of Medical Sciences, Vizianagarm District, Andhra Pradesh for renewal for MD/MS Ophthalmology seats. Being head of Condemnation Committee, she did condemnation of items (equipment/instruments/furniture) fit for condemnation for entire hospital. Being nodal Officer of Bio-Medical Waste Management Committee, she introduced two new waste disposal bags namely green and blue, processed construction of BMW storage site with FOUR rooms- red, yellow, blue and green, and introduced three bucket system for cleaning.

Publications

- Singh Kirti, Bhattacharyya B, Gotmare N. 2019, Congenital ectropion uveae (CEU) with refractory glaucoma: Early trabeculectomy saves vision. European Journal of Ophthalmology. July <https://doi.org/10.1177/1120672119860379>
- Singh Kirti , Bhattacharyya M, Goel A, Arora A, Gotmare N, Aggarwal H. 2020, Orthokeratology in Moderate Myopia: A Study of Predictability and Safety. J Ophthalmic Vis Res 2020; April - June , 15 (2): 210–217
- Expert Group for COVID-19 Practice Guidelines. 2020 All India Ophthalmological Society – Indian Journal of Ophthalmology consensus statement on preferred practices during the COVID-19 pandemic. Indian J Ophthalmol April; 68:711-24.

- Singh Kirti, Singh A, Spaeth G. 2019, An Ophthalmologist's Prayer. *BeyondOphthalmology*. DOS Times , 25(1): pg 71
- Goel, R., Raut, A., Agarwal, A., Raghav, S., Kumar, S., Chaudhary, S., Golhait, P., Kumar, S., & Saran, R. (2020). A Rare Presentation of Orbital Castleman's Disease. *Case reports in ophthalmological medicine*, 2020, 1012759. <https://doi.org/10.1155/2020/1012759>
- Goel,R.(2020).How to write a Postgraduate thesis protocol. In A.K. Gupta & V. Krishna (Eds.), *Contemporary perspectives on Ophthalmology* (10th ed., pp.678-684). Elseiver, New Delhi, India.
- Sodhi Punita. Association of ophthalmic features with hormonal and immune-histological type of pituitary adenoma in proceedings of the All India Ophthalmological Society.
- Sodhi Punita. BASICS- MN read Test- Measuring Reading Speed in the DOS Times, Volume 25, No. 2, September-October 2019

BOOK CHAPTERS & BOOKS

- Goel,R.(Ed.)(2019). *Manual of Oculoplasty*. Jaypee publishers, Delhi, india.
- Singh Kirti. Mainak Bhattacharya. 2020, Trabeculectomy & its modifications. Glaucoma Section. In *Postgraduate Ophthalmology 2nd Edition*. Eds: Chaudhari Z & M Vanathi. Jaypee Brothers & Medical Publishers New Delhi pg 1068-1106
- Singh Kirti in AIOS expert group on Primary open angle glaucoma. **2020**. *Diagnosis & Management of Primary open angle glaucoma*. Eds Dada T, Sidhu T, Midha N, Gupta S. All India Ophthalmological Society , New Delhi

JOURNALS

Dr Kirti Singh served in the editorial board of the following journals

- Editorial board of “Indian Journal of Ophthalmology “
- Editorial board of “ Delhi Journal of Ophthalmology”
- Editorial board of “ MAMC J of Medical sciences
- Editorial board of and Delhi Ophthalmic Society Times : a news letter

Dr Ruchi Goel served in the Editorial board member of ‘Indian Journal of Ophthalmology ‘

OPHTHALMOLOGY (LHMC) & THROAT (ENT)

Major Activities and Achievements

Departmental Activities

- a. Department got permission to start Keratoplasty from Delhi Organ Transplant Cell.

Dr. Zia Chaudhuri

- a. Dr. Zia Chaudhuri was awarded the prestigious Fellowship of the National Academy of Medical Sciences (FAMS) in October 2019.

- b. Dr. Zia Chaudhuri was awarded a travel grant by DOG-Genetiks (German Ophthalmological Society) for her participation in the Annual Meeting of the International Society of Genetic Eye Diseases and Retinoblastoma (ISGEDR) and Genetics Section of the German Ophthalmic Society (DOG-Genetiks) at Giessen, Germany on August 29-31, 2019.

Publications: Total Number 5 (NATIONAL & INTERNATIONAL)

Chaurasia S, Garg R, Beri S, Pakhare A.: Sonographic assessment of Optic Disc Cup and its Diagnostic performace in Glaucoma. Journal of Glauc.2019; 28: 131-138.

Sehrawat P, Beri S, Garg R, Datta V, Shandil A. Central corneal thickness and corneal diameter in preterm and term newborns and preterm neonates at term. Indian J Ophthalmol. 2019; 67(10): 1575-1578.

Boudry C, Alvarez-Muñoz P, Arencibia-Jorge R, Ayena D, Brouwer NJ, Chaudhuri Z, Chawner B, et al Worldwide inequality in access to full text scientific articles: the example of ophthalmology. PeerJ 2019; 7e7850 (IF:2.35)

Books/Chapters Contributed

Ramavat P. “Practical approach in normal tension Glaucoma”. In “Postgraduate ophthalmology”, Chaudhuri Z, Vanathi M, Eds. 2nd Edition, New Delhi. JP Brothers Publishers.

Beri S, “Retinal Studies” in “Postgraduate Ophthalmology” Chaudhuri Z, Vanathi M. Eds, 2nd edition, JP Brothers Publishers, New Delhi.

Conferences organized:

S.No.	Name, Venue & Date	Faculty Member	Organiser(s)	Funding agency
1	Eye Donation Awareness for Nursing, Seminar hall, Department of Ophthalmology, 4th Sept 2019	Dr. Sarita Beri Dr. Piyush Kumar R. Ramavat	Ophthalmology Department, LHMC & Associated Hospitals New Delhi	
2	Update on ARMD, Seminar room, Department of Ophthalmology, 12th Aug 2019	Dr. Sarita Beri Dr. Om Prakash Dr. Zia Chaudhuri Dr. Piyush Kumar R. Ramavat Dr. Monika Kapoor	Ophthalmology Department, LHMC & Associated Hospitals New Delh	
3	vka[kks ds ns[kHkky Ophthalmology OPD, 4th Apr 2019	Public Lecture	Ophthalmology Department, LHMC & Associated Hospitals New Delhi	
4	v,ijs”ku ds ckn vka[kks dh ns[kHkky Ophthalmology OPD, 11th Apr 2019	Public Lecture	Ophthalmology Department, LHMC & Associated Hospitals New Delhi	

Seminars/Conferences Presentations (National/ International):

INTERNATIONAL/NATIONAL

S.No.	Name of the participant	Role	Name of the conference venue date
1	Dr. Zia Chaudhuri	Delegate	2019 ARVO Workshop at Washington DC, 8th-9th Feb 2019 2019 ARVO Annual Meeting at Vancouver, Canada 28th Apr-2nd May 2019 Annual Meeting of the International Society of Genetic Eye Diseases and Retinoblastoma (ISGEDR) and Genetics Section of the German Ophthalmic Society (DOG-Genetiks) at Giessen, Germany, Aug 29th-31st, 2019.
2	Dr. Sarita Beri	Delegate and poster presentation Lecture Moderator Chairperson Webinar expert on 'Recent Advances in Diabetic Retinopathy'	77th AIOS Conference at Indore, 14th-17th Feb 2019 ISARCON conference held in LHMC Auditorium hall 8th Nov 2019. Retinal Surgeries session in Retina in Winter DOS at New Delhi, 3rd Nov 2019 Ocular 2019 Venous in Hotel Ashoka New Delhi 5th Oct 2019 AIOS at New Delhi, 14th Nov 2019
3	Dr. Piyush Kumar R. Ramavat	Video Rater	Tunnel Construction Course-Pilot Assessment of simulation- based training May 2019 to Aug 2019
4	Dr. Monika Kapoor	Delegate Lecture on "Various manifestations of Intraocular tuberculosis"	11th annual meet Retnet 2019 at Bengaluru 8th-9th June, 2019 Annual Varanasi ophthalmology society VOSCON 2019 held at Khajurao (M.P.) 7th-8th Sept 2019

Faculty Strength: 08

ORTHOPAEDICS (MAMC)

Major Activities and Achievements:

- The department of Orthopaedics, Maulana Azad Medical College has continued to maintain a high standard of medical education in the field of orthopaedics for both undergraduate and post graduate students.
- The department has continued to publish numerous articles of a high academic standard and these have been published / accepted in peer review international journals of repute and have contributed to chapters in books of repute.
- The faculty members have delivered guest lectures and presented papers in international and national conferences and have been invited as guest faculty and expert in various courses and forums across the country.
- The department continued to successfully conduct the popular post graduate instructional course in orthopaedics which attracted more than 300 post graduate students across the country.
- Most of the faculty members have been invited as examiners at various universities and involved with the Medical Council of India and National Board of Examination and contributed towards medical examination.

Publications

Dr Vinod Kumar

1. Dutt S, Joshi D, Kumar V. Synovial chondromatosis of ankle and its arthroscopic management: A case report and review of literature. *Journal of arthroscopy and joint surgery*. 2019. 2214-19.
2. Dutt S, Kumar V. A comparative study of anatomical single bundle anterior cruciate ligament reconstruction using femoral offset aimer versus freehand technique for femoral tunnel preparation. *European journal of Orthopaedic surgery and traumatology*: 2019
3. Dutt S, Kumar V. How anatomical is our tunnel? A three dimensional CT evaluation of femoral tunnel in anatomic anteromedial single bundle anterior cruciate ligament reconstruction. *Int J Res Orthop* 2019;5:656-60.
4. Sabat D, Sehrawat R, kumar V. A Percutaneous Technique to Reposition the Cortical Button of Adjustable-Loop Devices in Anterior Cruciate Ligament Reconstruction. *Arthroscopy*, 2019; 84: e484-e490.

Dr Sumit Sural

1. Ashwini Kumari, Sapna Singh, Anju Garg, Anjali Prakash, Sumit Sural. Tingling hand: magnetic resonance imaging of median nerve pathologies within the carpal tunnel. *Pol J Radiol*. 2019; 84: e484-e490.

Dr Lalit Maini

1. Mallya V, Gupta L, Khurana N, Maini L. (2019) Spontaneous regression of giant cell tumor of the wrist: Myth or fact? A case report. *Indian J Pathol Microbiol*. Apr-Jun; 62 (2): 346-348

2. Kambhampati SB, Maini L. (2019) Formatting references for scientific manuscripts. Indian J Orthop;53:381-3.
3. Mishra A, Verma T, Vaish A, Vaish R, Vaishya R, Maini L. (2019) Virtual preoperative planning and 3D printing are valuable for the management of complex orthopaedic trauma. Chin J Traumatol. Dec;22(6):350-355.
4. Verma T, Mishra A, Agarwal G, Maini L. (2019) Idiopathic Tumour calcinosis in foot. Journal of Clinical Orthopaedics. 2019 July- Dec; 4(2):16-21.
5. Poduval M, Maini L. (2019) Heraldng Change: The Evolution of the IJO in 2019. Indian J Orthop. Nov-Dec;53(6):679-681
6. Sharma A, Maini D, Agarwal G, Sharma P, Maini L (2019) Fibrodysplasia ossificans progressiva - can we diagnose it right at the outset? Turk J Pediatr. 61(6):958-962.
7. Mishra A, Verma T, Rajkumar, Agarwal G, Sharma A, Maini L. (2020) 3D Printed Patient-Specific Acetabular Jig for Cup Placement in Total Hip Arthroplasty. Indian J Orthop. Mar 17;54(2):174-180.

Dr Sumit Arora

1. Kumar M, Arora S. Common Peroneal nerve: The “Chhui Mui” Nerve. Turk J Phys Med Rehab. 2020;66(1):96.
2. Journals

Dr Lalit Maini

- Editor In Chief, Indian Journal of Orthopaedics

Research Projects

Vinod Kumar

- Prospective study for Comparative evaluation of interlaminar endoscopic discectomy and open discectomy for lumbar disc herniation
- Prospective study to evaluate Clinico-radiological outcome of arthroscopic all inside double bundle ACL reconstruction using autogenous semitendinosus graft using TRI- LINK technique
- Prospective study role of ultrasonography in evaluation of various soft tissue abnormalities causing elbow pain
- Prospective study to evaluate clinico-radiological outcomes of arthroscopic labral repair in anterior labral tear using all suture anchor
- Prospective study to evaluate clinico-radiological outcomes of arthroscopic all inside acl reconstruction using autogenous semitendinosus with small length bony sockets

Seminars Organized

Dr Sumit Sural

- i. Basic Spine Course Workshop on 10th February, 2019, Lecture theatre, 6th Floor, Orthopaedics Block, MAMC.

Conferences Organized

Dr Vinod Kumar, Dr Sumit Sural, Dr Lalit Maini, Dr Abhishek Kashyap, Dr Sumit Arora:

- 21st MAMC PG Orthopaedics Instructional course. 25th to 28th Nov 2019

Dr Vinod Kumar

- As a organizing Chairperson of 21st MAMC PG ORTHO instructional course held at GB Pant hospital on 25th to 28th Nov 2019.
- As a Executive Chairperson for Medico-Legal Seminar-2019 under aegis of Delhi Orthopaedics Association on 21st September 2019 at MAMC, Delhi.
- As a Organizing Chairperson for IFASCON- 2019 Cadaveric workshop on surgery around foot and ankle on 29th August 2019 at MAMC, Delhi.

Inter-institutional collaboration

DR Vinod Kumar

- As an organizer to conduct the DNB Orthopaedics examination held at Maulana Azad Medical College, New Delhi on 18th August 2020.
- As a organizing Chairperson of 21st MAMC PG ORTHO instructional course held at GB Pant hospital on 25th to 28th Nov 2019.
- I am elected as Member of executive council of Indian Cartilage society for session 2019-20.
- As a Executive Chairperson for Medico-Legal Seminar-2019 under aegis of Delhi Orthopaedics Association on 21st September 2019 at MAMC, Delhi.
- As a Organizing Chairperson for IFASCON- 2019 Cadaveric workshop on surgery around foot and ankle on 29th August 2019 at MAMC, Delhi.

Dr Sumit Sural: IGNOU, PGDGM

Students under exchange program

- Asian Students Medical Association: Dr. Sumit Sural, Director Professor Orthopaedics conducted a very successful first International Workshop on “Emergency Orthopaedics” for Asian Students Medical Association for 30 foreign students along with MBBS students of MAMC at the Department of Orthopaedics, MAMC on 7th January, 2020.

Faculty strength: 10+3 *

ORTHOPAEDICS (LHMC)

Publications: Total Number:7 (NATIONAL & INTERNATIONAL)

Journals Published/ Edited

1. RanjanR,Goell,SudA,SinhaA,KumarR.BilateraltubercularDactylitis:unusualpresentationofanusual disease.IndianJournaloftuberculosis.2019Jul1;66(3):346-52.
2. RanjanR,SudA,KanojiaRK,Goell,ChandS,SinhaA.Resultsofsupracondylar“V”osteotomyforthe correction of genu valgum deformity. Indian Journal of orthopaedics. 2019 Mar; 53(2):366-73.
3. Ranjan R, Sud A, Adhikary D, Sinha A, Chand S. Incidence and risk factors for iatrogenic distal tibia/ fibula fracture during Ponseti technique of clubfoot treatment. Journal of Paediatric Orthopaedics B. 2019 nov 1; 28(6):572-8.
4. NarangA,GuptaS,KanojiaRK,SinhaS.Anunusualpatternofflexordigitorumprofundusavulsioninjurywith a large extra-articular bony fragment. Journal of orthopaedic Case Reports. 2019; 9(3): 65-7.
5. SinhaS,GuptaS,KanojiaRK.BilateralGluteusMaximuscontractureinayoungchild:Acasereportandreview of literature. Journal of orthopaedic case reports. 2019; 9(2):60-3.
6. Agarwal A, Gupta S, Sud A, Agarwal S.Results of modified ponseti technique in difficult club foot and a review of literature. Journal of Clinical orthopaedics and trauma. 2019 May 7.
7. nayak C, Acharyya B, Jain M, Kamboj K. Valgus osteotomy in delayed presentation of femoral neck fracturesusingfixedanglesimpledynamichipscrewandplate. Chinese Journal ofTraumatology. 2019 Feb 1; 22(1):29-33.

Seminars organized: Total: 16

S. No.	Name	Role/Topic	Organizers	Name, Venue & Date
1	Dr. R K Kanojia	Faculty, talk on "Hip dislocation in paediatric age group"	MAMC	MAMC PG course, New Delhi, oct 2019
	Dr. Mukesh Kalra	Faculty		
2	Dr. Mukesh Kalra	Delegate	MCI	JCI training workshop, nov 2019, new Delhi
3	Dr. Alok Sud	Faculty	Delhi orthopaedics association	Paediatric Orthopaedics Foundation, New Delhi, Apr 2019
	Dr. Sumit Gupta	Delegate		
	Dr. Abhinav	Delegate		
4	Dr. Vivek Jangira	Delegate	Indian Society for Hand Surgery	43rd annual meeting of Indian society for surgery of hand (ISSH) puri odisha, 13th-15th Sept 2019
5	Dr. Vivek Jangira	Delegate	Dr. RMI hospital (sponsored by MoHFW)	AtIS provider course Dr.RamManoharlohiahospital, newDelhi,28 th -30 th nov2019

6	Dr. Sanjay Meena	Delegate	trauma Society of India	Current concept of trauma, Gurugram, 5th -7th Apr 2019
	Dr. Kulbhushan Kamboj	Delegate		
7	Dr. Sanjay Meena	Delegate and poster presentation	International Society of Knowledge for Surgeons on Arthroscopy and Arthroplasty	13th International congress of ISKSAA, 2nd-3rd Mar 2019, new Delhi
8	Dr. Sanjay Meena	Fellowship	Indian orthopaedics Association	International arthroplasty fellowship under prof. David Choon, Kuala lumpur, Malaysia in July 2019
9	Dr. Kulbhushan Kamboj	Delegate	Ranawat orthopaedics Foundation	Ranawat orthopaedic congress, new Delhi Feb 2019
10	Dr. Kulbhushan Kamboj	Delegate	Ao Foundation	Ao India Advance spine course, Mumbai, 13th -14th Sept 2019
11	Dr. Kulbhushan Kamboj	Delegate, paper and poster presentation	Indian orthopaedics Association	IoACon, Kolkata Sept 2019
12	Dr. Shameem Ahmad	Delegate	orthopaedic trauma Association	AAoS-otA best of orthopaedics techniques, new Delhi, Sept 2019
13	Dr. Shameem Ahmad	Delegate	Dr. Manoj Wadhwa	elite Arthroplasty course, Chandigarh, nov 2019
16	Dr. Sumit Gupta	talk on “pelvic support osteotomy”	Delhi orthopaedics Association	DoACon, new Delhi, 30th June 2019

Conferences organized:

S. No.	Name	Role/Topic	Organizers	Name, Venue & Date
1	Dr. Sumit Gupta	lecture on “Septic arthritis in paediatric age group”	Department of paediatrics, KSCH, new Delhi	KSCH-CMe 23rd -24th Feb 2019
2	Dr. Sumit Gupta	talk on “prevention of surgical site infection”	Microbiology department, IHMC	Swachtha pakhwara, IHMC new Delhi, 4th Apr 2019

Faculty Strength: 11

Director Professor 3
Professor 1
Associate Professor 3
Assistant Professor 4

ORTHOPAEDICS (UCMS)

Publications

1. Verma D, Kumar S, Dhammi IK, Kumar R, Kapoor R, Mittal A. Role of platelet-rich plasma versus corticosteroid injection in the treatment of plantar fasciitis: A comparative study. *Journal of Orthopaedics and Traumatology* 2019 Vol 2, issue 2, page 25-31.
2. Kumar S, Verma D, Dhammi IK, Kumar R, Mittal S. Transverse sacral fracture dislocation with anterior displacement in 13 years old female: A case report. *International Journal of Orthopaedics Sciences* 2019; 5(3):611-13.
3. Lakshminarayana S, Dhammi IK, Jain AK, Bhayana H, Kumar S, Anshuman R. Outcomes of Core Decompression with or without Nonvascularized Fibular Grafting in Avascular Necrosis of Femoral Head: Short Term Followup study. *Indian J Orthop.* 2019; 53(3):420-425.
4. Pandey R, Bhayana H, Dhammi IK, Jain AK. Hypoglossal Nerve Palsy as a Rare Complication of C1-C2 Pott's Spine. *Indian J Orthop.* 2019; 53(1):204-207.
5. Chadha M, Jain AK. Ethical issues while reporting in scientific journals. *Indian Spine J* 2020; 3:1-3.
6. Jain AK, Chadha M. Publish or perish. *Indian Spine J* 2019; 2:1-3.

Books

Dr. Anil K Jain

Written two chapters in forthcoming "Recent advances in Orthopaedics", Editor.

Jain AK, Dhammi IK

Edited a book "The 5-Minute Clinical Consult, South Asian Edition" published by Wolters Kluwer (India) Private Limited

Dr. Anil K Jain

Editor - Recent update in Orthopaedics 2020

SIGNIFICANT ACHIEVEMENTS

Dr. Jain AK

1. Editorial work: Editor-in-Chief of newly launched journal ISJ.
2. Tertiary Care: Orthopaedic department of UCMS is known as referral centre in bone joint and spinal tuberculosis – research and state of art treatment.
3. Published a monogram "Tuberculosis of bones, joints and spine – Evidence based management guide by CBS Publishers and Distributors Pvt. Ltd, New Delhi.

Faculty:

Director Professor : 1
Professor : 2
Consultant: 2

OPHTHALMOLOGY ARMY HOSPITAL (R&R)**Major Activities and Achievements**

The department of ophthalmology performs state of the art surgeries involving both anterior chamber and vitreo-retinal ones. They routinely carry out corneal transplantation. The department is actively involved with training of PG students and also takes active part in Prevention of Blindness programmes.

Awards and Honours

1. Dr Sonali V Kumar received first prize in free paper presentation at DOS Conference ,2020
2. Dr Col Sonali V Kumar received first prize in free paper presentation at DOS Conference ,2020

Publications in Journals

1. Ashok Kumar, Sanjay Kumar Mishra,Vikas Ambiya,Ayon Gupta. Impact Of Psycho-Social Stress Levels On Clinical Profile Of Acute Central Serous Chorioretinopathy Patients. International Journal Of Retina . 3(2):70-74.
2. Mishra S, Wadhvani M, Kumar A, Chauhan R. Outcome Of Pediatric Retinal Detachment Using High-Density Silicone Oil. Int Ophthalmol. 2020 Nov 8. Doi: 10.1007/S10792-020-01611-1.
3. Sati A, Moulick Ps, Shankar S. Triple Anterior Chamber Following Deep Anterior Lamellar Keratoplasty: An Unknown Complication. Med J Armed Forces India. 2020 Apr (Online)
4. Dhar Sk. Study Of Correlation Between Stereopsis And Retinal Nerve Fibre Layer Thickness In Cases Of Glaucoma-Mjafi-29 Apr 2020
5. Kumar P, Verma G, Maggon R, Narain S, Mehadradas P. Clinical Challenge. Off Sci J Delhi Ophthalmol Soc. 2020 Jan 27;30(1):79–82.
6. Kumar P. An Evaluation Of Characteristics Of Macular Edema And Best Corrected Visual Acuity In Superotemporal Vs Inferotemporal Branch Retinal Vein Occlusions And Assess Their Response To Antivascular Endothelial Growth Factors. Ophthalmol Allied Sci. 2020 Apr 1;6(1):13–20.
7. Ashok Kumar, Sanjay Kumar Mishra,Vikas Ambiya,Ayon Gupta. Impact Of Psycho-Social Stress Levels On Clinical Profile Of Acute Central Serous Chorioretinopathy Patients. International Journal Of Retina . 3(2):70-74.
8. Sati A, Moulick Ps, Shankar S. Triple Anterior Chamber Following Deep Anterior Lamellar Keratoplasty: An Unknown Complication. Med J Armed Forces India. 2020 Apr (Online)
9. Dhar Sk. Study Of Correlation Between Stereopsis And Retinal Nerve Fibre Layer Thickness In Cases Of Glaucoma-Mjafi-29 Apr 2020

10. Kumar P, Verma G, Maggon R, Narain S, Mehandradas P. Clinical Challenge. Off Sci J Delhi Ophthalmol Soc. 2020 Jan 27;30(1):79–82.
11. Kumar P. An Evaluation Of Characteristics Of Macular Edema And Best Corrected Visual Acuity In Superotemporal Vs Inferotemporal Branch Retinal Vein Occlusions And Assess Their Response To Antivascular Endothelial Growth Factors. Ophthalmol Allied Sci. 2020 Apr 1;6(1):13–20.

Presentations in conferences/seminars

1. Dr S K Mishra: Challenges Of Patient Care In Covid Time At Our Institute : A Way Forward: as a Vitreoretinal Surgeon in Retina Cases
2. Dr Alok Sati: Pterygium Extended Removal With Mini-Slet as a Cornea Specialist In Keratorefractive Cases
3. Dr Sk Dhar: As a Pediatric Ophthalmologist in Rop Cases
4. Dr Sonali V Kumar: As an Ocular Oncologist in Oncology Cases

PAEDODONTICS & PREVENTIVE DENTISTRY (UCMS)

Major activities and achievements :

- Guiding of MDS(Paedodontics & Preventive Dentistry PG)
- Guiding Postgraduate student for Research
- Patient care for adults and children of East Delhi
- Training of Junior and Senior Resident
- Establishing of additional dental facilities (08 New Dental unit cum chair)

Participation in Covid-19 Care

- Follow up a guidance of general paediatric Dentistry patient using telecommunication
- Video Consultation for Dental Problems of Covid -19 patients admitted in GTB Hospital
- Participated in Covid-19 call centre setup and management
- Participated in triage area of hospital for Covid-19 patients
- Participated in sample collection of Covid -19

Honours/Distinctions:

- Awarded Distinguished Women Paedodontist award by Indian Society of Paedodontics & Preventive Dentistry

Publications:

Tyagi R, Kalra N, Khatri A, Sabherwal P, Yangdol P. Management of non-reducing disc derangement in a young patient using progressive muscle relaxation technique. Int J Complement Alt Med. 2020; 13(4):180–183.

Kaushal D, Kalra N, Tyagi R, Khatri A, Biswas K. Pentalogy of Fallot: A case report and overview of its dental implications. *Spec Care Dentist* 2019; 1-6.

Kumar S, Tyagi R, Kalra N, Khatri A, Khandelwal D, Kumar D. Comparison of dental health, treatment needs in visually impaired and normal healthy school going children of 6-14 years age group. *Saudi J Oral Sci* 2020;7:46-51.

Singh HV, Kalra N, Tyagi R, Khatri A. Dental age assessment of North Indian origin children using Nolla's method in mandibular second molar. *Egypt J Forensic Sci* 2020. 10(25).

Tyagi R, Khatri A, Kalra N, Sabherwal P. Comparative evaluation of hand K-flex files, pediatric rotary files and reciprocating files on instrumentation time, post-operative pain and child's behavior in 4-8-year-old children. *Accepted Int J Clin Pediatr Dent* 2020.

Kalra N, Tyagi R, Khatri A, Sabherwal P, Yangdol P. Plausible occupational impact on familial Treacher–Collins syndrome: Dental findings and management. *Indian J Dent Sci* 2020; 12:145-48.

Khandelwal D, Kumar D, Kalra N, Tyagi R, Khatri A, Kumar S. A rare case of Dandy –Walker syndrome in the 12 year old girl. *J Indian Soc Pedod Prev Dent* 2020;38:94-6.

Kalra N, Tyagi R, Khatri A, Singh HV, Sabherwal P, Sharma M. Propranolol therapy for the management of oral lobular capillary hemangioma in a 2-year-old preschooler: A case report and review. *SRM J Res Dent Sci* 2020;11:50-3.

Tyagi R, Kalra N, Khatri A, Singh HV, Sharma M, Sabherwal P. Amelogenesis Imperfecta – Case Series And Management. *Clinical Dentistry* 2019; 13(5):12-17.

Placement Details(Number and percentage of students Placed) :

- 02 postgraduate selected in provisional services.
- 01 postgraduate selected in USA for advanced dental training.
- 01 postgraduate selected as faculty in state Dental college

PATHOLOGY (GIPMER)

Publications Total number

- Sarin SK, Choudhury A, Sharma MK, Maiwall R, Al Mahtab M, Rahman S, Saigal S, Sakhuja P; APASL ACLF Research Consortium (AARC) for APASL ACLF working Party. Acute-on-chronic liver failure: consensus recommendations of the Asian Pacific association for the study of the liver (APASL): an update. *Hepato Int.* 2019 Jun 6. doi: 10.1007/s12072-019-09946-3. [Epub ahead of print] PubMed PMID: 31172417.
- Verma R, Agarwal AK, Sakhuja P, Sharma PC. Microsatellite instability in mismatch repair and tumor suppressor genes and their expression profiling provide important targets for the development of biomarkers in gastric cancer. *Gene.* 2019 Aug 20;710:48-58. doi: 10.1016/j.gene.2019.05.051. Epub 2019 May 28. PubMed PMID: 31145962.

- Garg N, Singh J, Anjum H, Puri AS, Sakhuja P, Batra VV. Cytopreparation of duodenal biopsy fixative improves detection rate of giardia in clinically suspected cases. *Cytopathology*. 2019 May;30(3):309-313. doi: 10.1111/cyt.12684. Epub 2019 Apr 1. PubMed PMID: 30817052.
- Nallacheruvu Y, Gaur K, Sakhuja P, Agarwal AK, Srivastava S. Mucoepidermoid Carcinoma of the Gallbladder: A Case-Based Study of an Extremely Rare Tumor Highlighting the Role of Immunohistochemical Profiling. *Int J SurgPathol*. 2019;27(4):418-422. doi:10.1177/1066896918821436
- Misra S, Sakhuja P, Agarwal AK, Javed A. Fulminant amebic colitis: An unusual postoperative complication of intraabdominal malignancy. *J Postgrad Med*. 2020 Mar 5. doi: 10.4103/jpgm.JPGM_605_19.
- Dahale AS, Srivastava S, Sonika U, Dalal A, Goyal A, Sakhuja P, Sachdeva S, Puri AS. Role of linear endosonography in the diagnosis of biopsy-negative malignant esophageal strictures: Exploring the unexplored. *JGH Open*. 2019 Jul 18;4(2):113-116.
- Gaur K, Gupta L, Saran RK, Ghuliani D. Staging a great escape -Incidentally detected renal urothelial carcinoma with extensive squamous metaplasia presenting as pyonephrosis. *J Can Res Ther* 2019;15:S159-62.
- Misra S, Saran RK, Srivastava S, Burman S, Dahale A. Utility of Cytomorphology in distinguishing solid pseudopapillary neoplasm of pancreas from pancreatic neuroendocrine tumour with emphasis on nuclear folds and nuclear grooves. *Diagnostic Cytopathology*: 2019;47: 531-540.
- Arumugam V, Saha A, Kaur M, Deepthi B, Basak T, Sengupta S, Bhatt A, Batra VV, Upadhyay A D. Plasma free homocysteine levels in children with idiopathic nephrotic syndrome. *Indian J Nephrol* 2019 May-Jun;29(3):186-190. doi: 10.4103/ijn.IJN_293_17. PMID: 31142965
- Agarwal H, Singh L, Khan NA, Goyal S. Ultrasound guided aspirate from a paediatric retroperitoneal mass: A diagnostic dilemma. *Cytopathology*. 2019 Sep;30(5):560-562. doi: 10.1111/cyt.12710.
- Sharma P, Yadav AK, Goyal S, Mandal AK. Melanotic neuroectodermal tumor of infancy: A rare entity. *J Oral Maxillofac Pathol*. 2019 Feb;23(Suppl 1):134-137.
- Sharma P, Zaheer S, Goyal S, Ahluwalia C, Goyal A, Bhuyan G, Mandal AK. Clinicopathological analysis of extracranial head and neck schwannoma: A case series. *J Cancer Res Ther*. 2019 Jul-Sep;15(3):659-664.
- Goyal A, Goyal S, Gupta CR. Acute amoebic appendicitis: An unusual presentation of a usual infection. *Indian J Pathol Microbiol*. 2019 Jan-Mar;62(1):169-170.

Research Projects

Dr Puja Sakhuja

Association of Microsatellite instability with gastric cancer - completed

Proteomic Analysis of Plasma Exosomes to Identify Circulatory Biomarkers for Gallbladder Carcinoma – ICMR – ongoing

Details of thesis completed

Supervisors for thesis for 2 postgraduates in pathology

Co-supervisors for thesis in MAMC, DM, MCh thesis at GIPMER and thesis at MAIDS

Conferences Organized

"Prostate Cancer in the 21st Century" – talk by Dr Aiman Haider

Single day conference on digitization in Pathology – talk by Dr Juan Rotamero May – 2019.

Annual meeting of Delhi chapter of IAPM – DAPCON – with MAMC – March 2019

Faculty Strength

Director Professor : 3

Associate Professor: 2

PATHOLOGY (MAMC)

Major activities and achievements

Department of pathology serves as a diagnostic laboratory along with teaching of 250 MBBS Students, BDS, BPO and MLT students.

29213 samples were received in histopathology in the year including frozen sections for rapid intraoperative diagnosis, Immunofluorescence for skin lesions, processing small, medium and large surgical specimens, autopsy specimens, immunohistochemistry and special stains.

14126 samples in hematology were received. Complete hemogram, bone marrow aspirates and bone marrow biopsy. Varied tests were conducted in special hematology namely G6PD deficiency, osmotic fragility, HPLC, cytochemical stains and LE cell, Flow cytometry was done for diagnosing hemolymphoid malignancies, PNH and Lymph node aspirates for diagnosing Lymphomas.

10383 cytology specimens were processed each year including many FNAC, guided FNAC and in bed FNAC, fluid aspirates from ascitic fluid, peritoneal fluid, pleural fluid, BAL, sputum cytology, urine cytology and Gynae PAP smears.

All faculties take keen interest in regularly arranging seminars, Clinicopathological meets, projects, publications and thesis work.

Publications

- Gupta S, Garg A, Bhandri PS, Kapoor S, Jain S, Trehanpati, Reichenberger, Khusboo. Clinico-radiological Follow up of Familial Aggressive Cherubism: A Case Series Oral Surg Oral Med Oral Pathol Oral Radiol 2019; doi.org/10.1016.j.0000.2019. 01.082 (ahead of print)
- Patel S, Singh I, Gulati A, Khurana N.A Study on Neck Nodes in Oral Cancers, with Special Reference to Skip Metastasis. Indian J Otolaryngol Head Neck Surg 2019 Oct;71(Suppl 1):474-481. doi: 10.1007/s12070-018-1360-1. Epub 2018 Apr 16.

- Gupta S, Vats P, Jha A, Singh K, Ghosh S, Tandon S, Khanna A, Kapoor S, Khurana N. Gingival manifestations of tuberculosis in pediatric patients: series of 4 cases. *Oral Surg Oral Med Oral Pathol Oral Radiol.* 2019
- Krishnamurthy K, Mishra TK, Saxena A, Daga MK, Khurana N, Masroor M, Jamatia E. Evaluating NISCH and CDH1 Promoter Hypermethylation in Nonsmokers, Cancer Free Smokers and Lung Cancer Patients: A Case Control Study. *Indian J Clin Biochem.* 2019 Oct;34(4):458-464.
- Chaudhary D, Kaur N, Mandal S, Khurana N, Singh CB. Incidentally detected acalculous tubercular cholecystitis: A rare case report with a comprehensive review of literature. *Indian J Pathol Microbiol.* 2019 Oct-Dec;62(4):627-628.
- Gupta AJ, Singh M, Bhattacharya JB, Anusha S, Jain S, Khurana N. Intraoperative Scrape Cytology from Ovarian Masses Lesions: A Study of 81 Cases. *J Cytol.* 2019 Jul-Sep;36(3):174-179.
- Singh V, Kaur N, Mandal S, Khurana N, Bhasin S. J Bilateral ovarian fibromas with concomitant unilateral serous cystadenoma: a rare case with review of literature. *Obstet Gynaecol.* 2019 Oct;39(7):1027-1029
- Yadav S, Singh M, Singh P, Mandal S, Khurana N, Jain SL. Cytological evaluation of pericardial fluids: A 5 years experience in tertiary care center. *Indian J Pathol Microbiol.* 2019 Apr-Jun;62(2):270-273.
- Agarwal R, Khurana N, Singh T, Agarwal PN. Tumor budding in infiltrating breast carcinoma: Correlation with known clinicopathological parameters and hormone receptor status. *Indian J Pathol Microbiol.* 2019 Apr-Jun;62(2):222-225.
- Sagar P, Shankar R, Wadhwa V, Singh I, Khurana N. Primary tubercular dacryocystitis - a case report and review of 18 cases from the literature. *Orbit.* 2019 Aug;38(4):331-334.
- Bains L, Bhatia S, Kaushik R, Jain SK, Singh CB, Mandal S, Kaur D. Pre-sternal thyroid swellings: a case of rare aberrant site recurrence and review of literature. *Thyroid Res.* 2019 Nov 21;12:12.
- Lal P, Bains L, Sawant G, Saini R, Mandal S. Giant filarial retroperitoneal cyst: a diagnostic dilemma. *Trop Med Health.* 2019 Jun 13;47:37.
- Sagar P, Rajpurohit P, Singh I, Mandal S. Giant De Novo Pleomorphic Adenoma of Parapharyngeal Space, Can It Cause Spinal Deformity? A Case Report. *Spine Deform.* 2019 May;7(3):505-508.
- Agarwal R, Sinha D, Tomar R, Mandal S, Bains L, Jain S. Primary malignant peripheral nerve sheath tumor of the breast. *Breast J.* 2019 Jul;25(4):742-745.
- Mallya V, Gupta L, Khurana N, Maini L. Spontaneous regression of giant cell tumor of the wrist: Myth or fact? A case report. *Indian J Pathol Microbiol.* 2019 Apr-Jun;62(2):346-348.
- Yadav S, Mallya V, Khurana N. Xylene-free staining: Is it possible and practical? *Indian J Pathol Microbiol.* 2019 Apr-Jun;62(2):274-278.
- Chaudhary D, Singh V, Mallya V, Mandal S, Khurana N, Singh R. Utility of Trucut Biopsy in Diagnosing Phyllodes Tumor. *J Midlife Health.* 2019 Jul-Sep;10(3):135-140.
- Agarwal R, Gupta L, Singh M, Yashaswini N, Saxena A, Khurana N, Chaudhary D. Primary Laryngeal Tuberculosis: A Series of 15 Cases. *Head Neck Pathol.* 2019 Sep;13(3):339-343.

- Pal S, Jain A, Chopra A, Singh M. Case 2: A Newborn with a Changing Rash. *Neoreviews*. 2019 Dec;20(12):e740-e743.
- Bains L, Lal P, Vindal A, Singh M. Giant villous adenoma of rectum- what is the malignant potential and what is the optimal treatment? A case and review of literature. *World J Surg Oncol*. 2019 Jun 25;17(1):109.
- Utility of Fine Needle Aspiration in Diagnosis of Intraoral Minor Salivary Gland Tumors. Singh M, Sagar N, Yadav S, Aggarwal R, Mandal S, Khurana N, Jain S, Meher R. *J Cytol*. 2020 Jan-Mar;37(1):53-57.
- Dimple Chaudhary, Latika Gupta , Radhika Agarwal ,Varuna Mallya , Reena Tomar ,Shramana Mandal , ,Nita Khurana , Y K Sarin * . Histomorphological analysis of hepatoblastoma cases in tertiary care hospital . A Five year study . Department of Pathology and Paediatric surgery * Accepted in *Journal of Cancer Research & Therapeutics* .(December 2019) JCRT 120-19
- Dimple Chaudhary , Aashutosh Rath , Shramana Mandal , Nita Khurana , P N Agarwal *Primary Leiomyosarcoma Kidney – a rare entity with diagnostic challenge . Department of Pathology and Surgery . Accepted in *Journal of Cancer Research & Therapeutics* (Oct 2019) JCRT 107-19.
- Mallya V, Singh V, Kaur N, Yadav P, Mandal S, Khurana N, Lal P. Does tumor stroma ratio of breast cancer trucut biopsy determine response to neoadjuvant therapy?. *Indian J Pathol Microbiol*. 2020 Feb;63(Supplement):S113-S116.
- Reena Tomar, Shruti Thakur, Varuna Mallya, Shramana Mandal, Nita Khurana, Y K Sarin. Childhood Rhabdomyosarcoma with Anaplastic features and its correlation with histological subtypes. *Indian J Pathol Microbiol*. Dec 2019; 62, S1:6-17.
- Deepak Ghuliani, Rajshekar P., Kartik Sahni, Reena Tomar. Incidental Isolated Renal Mucormycosis in immunocompetent patient : A rare and atypical presentation . *International Surgery Journal, ISJ* . Feb 2020; DOI: <http://dx.doi.org/10.18203/2349-2902.isj20201412>
- Amritha P.S. , Sarika Singh,Varuna Mallya, Kirti Balhara, Lity Dhar, Pallavi Sinha. Rare Haematological presentations predating Non Hodgkins Lymphoma. *International Journal of Pharmacological Research*. 2019 9(12) e5313
- Kirti Balhara, Sarika Singh , Shyam Lata Jain, M K Daga, Anubhav Vindal.Ebstein Barr virus in Hodgkins Disease A path less treaded .*Annals of Pathology and Laboratory Medicine*. 2020Vol.7, Issue 6, 310-319
- Sinha P, Singh S, Dhar L, Balhara K. Epstein Barr virus -positive Diffuse large B - cell Lymphoma.not otherwisw specified: A diagnostic challenge. *Ann Trop Pathol*2019,; 10: 172-4
- Maranna H, Bains L, Lal P, Bhatia R, Beg MY, Kumar P, Mallya V. Cystic Lymphangioma of the Greater Omentum: A Case of Partial Spontaneous Regression and Review of the Literature. *Case Rep Surg*. 2020 Jan 28;2020:8932017. doi: 10.1155/2020/8932017. eCollection 2020.

Conferences Organized

Workshop on “Bone Marrow Biopsy Immunohistochemistry” during 60 Annual Conference of Indian Association of Hematology and transfusion Medicine Hematocon , Organised by Department of Pathology, MAMC, New Delhi on 7th Nov 2019.

Faculty strength -10

PATHOLOGY (LHMC)

Major Activities and Achievements: Total number of laboratory investigations done by Pathology department was 4,98,388 in this year. Dept of Pathology has added many high ended investigations in last year . Fully automated Immunostainer (Ventana) was added to immunology lab to offer prompt, precise tissue-based results Platelet Aggregation system was added to hematology department of pathology to accurately access platelet function assays . SQA vision automated semen analyzer (according to WHO semen parameters) was installed in clinical pathology for better assessment of semen counts and morphological abnormalities . Routine screening for hemoglobinopathies is being done for all ANC patients and suspected paediatric patients .Many voluntary blood donation camps and various awareness programs were organized by Dept of Pathology and Blood bank along with undergraduate students, under Student Leadership Mission program (under the aegis of Medical education unit).

Honours and Distinctions

Dr Sunita Sharma was awarded Reviewer certificate of outstanding contribution in reviewing articles in IJPM journal

Publications (Total):

1. Gaur K, Puri V, Jain M, Hooda S, Sharma S et al. Acute myeloid leukemia presenting as fissure-in-ano: A unique case of histologically proven nodular leukemic cutis. *Indian J Pathol Microbiol* 2019 Oct-Dec;62(4):645-646
2. Dudeja S Gupta S, Sharma S et al Incidence of vincristine induced neurotoxicity in children with acute lymphoblastic leukemia and its correlation with nutritional deficiencies. *Pediatr Hematol Oncol* 2019 Sep 13;36(6):344-351. Epub 2019
3. Gaur K, Puri V, Jain M, Shukla S, Sharma S, Chronicles of blood morphology associated with steroid use. *Blood Res* 2019 Sep 25;54(3):162. Epub 2019.4.
4. Puri V, Chikara A, Sharma G, Sehgal S, Sharma S. Critical evaluation of donor direct antiglobulin test positivity: Implications in cross-matching and lessons learnt. *Asian J Transfus Sci* 2019 Jan-Jun;13(1):70-725.
5. Sharma S Sehgal S Dass R, Gulati S Phenotypic heterogeneity of delta-beta thalassemia. *Indian J Pathol Microbiol* 2019;62(1):185-1866.
6. Puri V, Sharma S, Gaur K, Sharma S, Shukla S. Association between male body mass index and semen parameters. *Indian J Med Sci* 2019;71(3):109-127.
7. Parakh N, Sharma S Chandra J Thrombotic Complication In Children With Non Transfusion Dependent Thalassemia - A Case Series From Tertiary Care Centre *Ped hemat oncol* Volume 4, Issue 2, Supplement, 2019, Pages S40-S41 <https://doi.org/10.1016/j.phoj.2019.08.1158>
8. Parakh N, Khan A, Sharma S, Chandra J, Clinical Profile And Management Of Hb E β Thalassemia In Paediatric Patients From A Tertiary Care Centre In North India *Ped hemat oncol* Volume 4, Issue 2, Supplement, 2019, Pages S41

9. Parakh N, Deka M, Aakriti Sharma S, Chandra J Clinical Profile Of Hereditary Spherocytosis - A Case Series From A Tertiary Care Centre Ped hemat oncol Volume 4, Issue 2, Supplement, 2019, Pages S40 <https://doi.org/10.1016/j.phoj.2019.08.11410>.
10. Puri V, Dhal I, Singh K, Sharma G, Rai P, Sharma S Critical audit of fresh frozen plasma transfusion practices in obstetric and gynecology departments in a tertiary care hospital – Where and what needs to be improved? *Global Journal of Transfusion Medicine* 2019; 4(2):175-179
11. Singh, S., Chhikara, A., Anand, A., Agarwal, K., Nangia, S. (2020) Somnath SH. Peliosis Hepatis: A Rare Cause of Hepatomegaly in a Newborn. *OSP J Health Car Med*, HCM-1, 110.
12. Singh, S., Meena, R., Agarwal, L., Chaddha, R., Sharma, S. (2019). Primary Ewing's Sarcoma of Kidney in Infant: a Rare Case Report. *World J Pathol*, 8, 27-30.
13. Singh, S., Karangadan, S., Bhushan, R., Agarwal, K. (2019). Type 4 Congenital Pouch Colon without Fistula with Anal Agenesis and Lower Vaginal Agenesis in a Female Fetus: A Rare Autopsy Case Report. *Turk J Colorectal Dis*, 29, 153-155.
14. Singh, S., Bhushan, R., Agarwal, K., Chhikara, A., Anand, A. (2019) Autopsy Finding in Lung and Liver: A Histopathological Study. *National Journal of Laboratory Medicine*, Vol-8(1), PO07-PO1.
15. Agarwal, K., Anand, A., Garg, J. (2019). CD200 breaks the diagnostic dilemma between Atypical CLL and other CLPNs. *international journal of research and reports in Hematology*, 2(3), 1-12.
16. Agarwal, K., Chhikara, A., Garg, T. (2019). Subcutaneous Basidiobolomycosis in an immunocompetent Child: A Case Report *Journal of Clinical and Diagnostic Research*, 13(2), ED01-ED02.
17. Agarwal, K., Chhikara, A. (2019). Filariar Pleural Effusion with Lymphoma: A Rare Association. *Journal of Clinical and Diagnostic Research*, 13(1), ED03-ED05.
18. Samanta A, Chandra J, Kaur R, Anand R, Shukla S, Mandal P. Clinical profile and microbiological spectrum of Febrile neutropenic episodes in children with severe aplastic anemia. *J Pediatr Hematol Oncol*. 2020; 42(3): 193-197.
19. Shukla S, Chhikara A, Bundela T, Sharma S, Chandra J. Clinical, morphological and immunophenotypical findings in acute leukemia: a study from a tertiary care hospital. *Iran J Ped Hematol Oncol*. 2020; 10(3):136-143
20. Sharma A, Gaur K, Tiwari VP, Shukla S. Sick cell disease presenting in the third trimester of pregnancy: delayed detection heralding a public health problem? *Indian J Public Health* 2020; 64:93-5
21. Chakravarti A, Shukla I, Mehra P, Shukla S. Parathyroid adenoma in a young female presenting with craniofacial brown tumor and acute pancreatitis – A case report. *Indian Journal of Case Reports* 2019; 5(4):391-3.
22. Brijesh Kumar Singh, Sudipta Saha, Shilpi Agarwal. 2020. Malignant Brenner Tumor Of the ovary manifesting as distal intestinal obstruction and perforation. *BMJ Case Rep* jun 2020; 13(6).
23. Ishan Goel, Rama Anand, Shilpi Agarwal. 2020. Evolving Concepts in Ultrasonography of Pediatric Intussusceptions: Unequivocal Differentiation of Ileocolic, Obstructive and Transient small bowel Intussusceptions. *Ultrasound Med Biol* Mar 8; 46(3): 589-597. Taru Garg, Meenu Malik, Ram

- Chander , Shilpi Agarwal.2020 Jan; Atypical Vascular lesions – postmastectomy Postradiation SKINmed, 18(1) :58-60.
24. Amrita Anand, Shilpi Agarwal.2019. Secondary Amyloidosis involving the bone marrow : A rare case report J Emer Crit Care Diagn mang. March;2(1):1-3.
 25. Deeksha Singh, Shilpi Agarwal, R Chander. 2019. Role of direct immunofluorescence in autoimmune bullous disorders: a replacement or reinforcement for histopathology. Indian Journal Of Applied Research;9(3);26-29.
 26. Gupta AJ, Singh M, Bhattacharya JB, Anusha S, Jain S, Khurana N. Intraoperative Scrape Cytology from Ovarian Mass Lesions: A Study of 81 Cases. J Cytol. 2019 Jul-Sep;36(3):174-179.
 27. Gaur, K., Puri, V., Shukla, S., Sharma, S., Suman, S. & Singh, R (2020). Finish before the start: Analyzing preanalytical sample errors in a tertiary care hematology laboratory. *Indian J Pathol Microbiol*,63(3),435-440.
 28. Ali, SA. , Gaur, K., Srivastav, AK., & Saran, R.K. (2019). Sellar Colloid Cyst-An anatomically aberrant and diagnostically challenging entity: Report of a rare case with literature review. *Indian J Neurosurg*,8:211-215.
 29. Gaur, K., Gupta, R. K., Saran, R. K., & Sharma, M. C. (2019). Composite pleomorphic xanthoastrocytoma-ganglioglioma; assessing and addressing the dilemma of differential expression of neuronal markers: Case report with diagnostic perspective. *Indian journal of pathology & microbiology*, 62(2), 296–299.
 30. Nallacheruvu, Y., Gaur, K., Sakhuja, P., Agarwal, A. K., & Srivastava, S. (2019). Mucoepidermoid Carcinoma of the Gallbladder: A Case-Based Study of an Extremely Rare Tumor Highlighting the Role of Immunohistochemical Profiling. *International journal of surgical pathology*, 27(4), 418–422.
 31. Pahuja S, Sehgal S, Sharma G, Singh M, Yadav R, 2019. The anti Mia antibody- a report of 4 cases in a tertiary care Hospital with review of literature. *Global Journal of Transfusion medicine*, Vol 4 (1): January-June, 79-83.
 32. Pahuja S, Jain S, Nain M, Goel R, Sehgal S, Jain M, 2019. Assessment of Rhesus and Kell Blood group antigens, phenotypes and their allelic frequencies in North Indian Blood Donors. *Asian Journal of Transfusion Sciences*. Rh and Kell . doi 10.4103/ajts.AJTS_9_19
 33. Pahuja S, Bhushan R , 2019. Homozygous Hb D Punjab: A case report of family study.. *National Journal of Laboratory Medicine*, Jan 8(1): PC03-PC04.
 34. Mahajan A, Kumar V, Pahuja S, Chappola V .Clinical profile and short term outcome of children with neutropenia. *Indian Journal of Paediatrics*. [http://doi.org/ 10.1007/s12098-019-03020-4](http://doi.org/10.1007/s12098-019-03020-4).
 35. Sharma G, Pahuja S, Singh D et al., 2020. Non RhD isoimmunization causing severe hemolytic disease of fetus and newborn in Rh positive pregnancies: Report of 2 cases with review of literature. *Int J Contemp Pediatrics* 2020 ;7(4):955-960

Published Books

1. Sharma, S., Tyagi, S.P., Chauhan, R. Concise Hematology, New Delhi: CBS.
2. Puri, Vandana., (2019). Complete review of pathology and hematology, New Delhi: CBS. 6th ed

Journals

Published by the College: Nil

Number of College teachers serving as Editors (s)/Member(s) of Editorial Board: 01

Research Projects

Funding Agency	Year/Period	Title	Amount
Deptt. of Health Research (Dr Shailaja Shukla)	2019	RT PCR for detection of common fusion transcripts in childhood ALL	30 lakhs
ICMR STS-2020 (Dr Vandana Puri)	2019	Association of Tobacco, Caffeine, Alcohol and Cell phone in trousers pocket with Semen quality.	-

Seminars Organized:

Guest lecture by Dr Mithlesh Chandra on virtual teaching on pathology on 17.02.20.

Conference Presentations

International

- Dr Shilpi Agarwal and Dr Vandana Puri – Faculty in CME on US and CT guided FNAC of Abdominal organs.(16 to 19 June 2019) at ECC, SWEDEN

Other Inter- Institutional Collaboration –

Dr Kiran Agarwal and Dr Smita Singh are Co-investigator in 'Development of a DHM Based Tool for Smart Screening & Diagnosis of Cervical Cancer by Department of biotechnology, Ministry of science and technology ,Govt. of India (79 lakhs) with AIIMS ,New Delhi

Faculty Strength: 12 regular and 5 on contract

PATHOLOGY (VPCI)

Major activities and achievements:

- Dr. Ritu Kulshrestha is the Member Secretary of the Department of Health Research, GOI- ICMR-VPCI-Multidisciplinary Research Unit, at VPCI from April 2014 to 20th May 2019.
- Dr. Ritu Kulshrestha is the DST nominee to the Facility management committee of,“Sophisticated Analytical Instrument Facility (SAIF)”, New Delhi (AIIMS) from 10/8/2018 to 9/8/2021

- Dr. Ritu Kulshrestha is the Working Group Member of the Under-Graduate Curriculum Revision Committee-2019 University of Delhi for the revision of the Course titled Human Pathology Course, Code 32581601 in Programme (CBCS) B.SC.(HONS.) BIOMEDICAL SCIENCES, as per the UGC's Learning Outcome-Based Curriculum Framework (UGC-LOCF). April 2019
- Dr. Ritu Kulshrestha is the Councilor Member of the Asia-Australasian Pulmonary Pathology Society (AAPPS) since 2016 to date

Publications:

Kulshrestha R, Pandey A, Jaggi A, Bansal SK. (2020). Beneficial effects of N-acetylcysteine on protease antiprotease balance in attenuating bleomycin induced pulmonary fibrosis in rats. *Iranian J Basic Med Sc. IJBMS*; 23:396-405. magiran.com/p2075161

Kulshrestha R, Singh H, Pandey A, Mehta A, Bhardwaj S, Jaggi A. (2019). Caveolin-1 as a critical component in the pathogenesis of lung fibrosis of different etiology: Evidences and mechanisms. *Experimental and Molecular Pathology*. Dec;111:104315. doi: 10.1016/j.yexmp.2019.104315

Kulshrestha R, Prasad R, Kumar M, Jaggi AS. (2019). A Review on Molecular Epidemiology of Lung Cancer in India. *Innovative J Med Health Sc.*: 12:702-14. DOI: <https://doi.org/10.15520/ijmhs.v9i11.272>

Sharma J, Kulshrestha R, Singh N, Jaggi AS. (2019). Dual role of D-amino acid oxidase in experimental pain models. *Eur J Pharmacol*. 2019 . pii: S0014-2999(19)30305-X. doi: 10.1016/j.ejphar.2019.05.001

Kumar M, Kulshrestha R, Singh N, Jaggi AS. (2019). Expanding spectrum of anticancer drug, imatinib, in the disorders affecting brain and spinal cord. *Pharmacological Research* 2019; 143: 86–96. <https://doi.org/10.1016/j.phrs.2019.03.014>

Vaidya S, Gothi D, Kulshrestha R. (2019). St Peregrine tumour" with synchronous primary renal cell carcinoma'. *Lung India*. 36 (3):256-9. doi: 10.4103/lungindia.lungindia_413_18.

Journals: Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board- Dr Ritu Kulshrestha is, Editor of the VPCI Newsletter since 2012 to date

Research Projects:

1. Extracellular matrix remodelling and expression of matrix metalloproteinases in pulmonary fibrosis. P.I. Dr. Ritu Kulshrestha, Co-PI- Prof. Amit Kumar Dinda (AIIMS, New Delhi). VPCI-DHR-ICMR (MRU) project~Rs. 7.5 lakhs/annum: 2017-2019.
2. Designing of inhalational polymeric nanoparticle drug delivery systems for the treatment of lung fibrosis. PIs-Dr Ritu Kulshrestha, Prof AK Dinda, AIIMS, Prof AK Mishra, INMAS, DRDO. ICMR-Nano Task Force Project. Rs 10.5 lakh/annum w.e.f. 29/11/2019.
3. Synthesis of polymeric nanoformulations encapsulated with chemotherapeutic agents for lung cancer treatment. Principal Investigator: Dr Ritu Kulshrestha. VPCI-DHR-ICMR (MRU) Project: December 2019.~Rs. 2.5 lakhs/annum
4. Exploring the potential of G-Quadruplex targeting nanoparticle (GQ-NP) conjugates in lung cancer. Principal Investigator: Dr Ritu Kulshrestha VPCI-DHR-ICMR (MRU): December 2019. ~Rs. 2.5 lakhs/annum

Seminars/ Conference Presentations (National/International)

1. Himanshu Dhanda, Amit Singh, Apoorva Pandey, Ritu Kulshrestha. Presented paper titled, “Effect of bleomycin on SMAD-2,3,5, TGF- β signalling and epithelial mesenchymal transition in A549 lung adenocarcinoma cell line” at the 8th International Translational Cancer Research Conference: Role of Inflammation and Immune System for Cancer Prevention and Treatment. Organized by: Department of Biochemistry, Institute of Science, BHU & Society for Translational Cancer Research (STCR); February 13-16, 2020
2. Dr Ritu Kulshrestha was invited faculty and Panelist in panel discussion on, “MDD: Common ILD diagnostic and therapeutic dilemmas” DPLD Update 2.0, Jaipur. 26th January 2020
3. Dr Ritu Kulshrestha was invited faculty and gave presentation on, “Pathology of ILD: what every Chest physician should know” and Panelist in “Panel discussion on ILD” during the 11th National Update in Respiratory Medicine, Hinduja Hospital, Mumbai, 13th -15th December 2019.
4. Dr Ritu Kulshrestha was invited faculty and gave presentation on, ‘Occupational and drug induced Interstitial lung diseases’ and Moderator for the CME on “Interstitial Lung Disease” APCON 2019, Department of Histopathology, PGIMER, Chandigarh, 7th December 2019
5. Dr Ritu Kulshrestha was invited faculty and gave presentation in the “ACS symposium titled " Innovations in Drug Delivery Systems: Recent Breakthroughs and New Approaches in Formulation, Drug delivery mechanisms and Advanced delivery systems”, as part of the Fall 2019 American Chemical Society (ACS) National Meeting, Polymer Material Science and Engineering (PMSE) division, San Diego, CA (August 25-29, 2019).
6. Dr Ritu Kulshrestha was invited faculty and gave presentation on, “Inflammatory diseases of mediastinum-What oncologist should know”. Organised by Delhi Cancer Registry at Max Super Speciality hospital, Saket, 17th July 2019
7. Dr Ritu Kulshrestha was invited faculty and gave presentation on, “HPE diagnosis of Progressive fibrosis- Idiopathic pulmonary fibrosis and importance in diagnosing IPF” and Panelist for Teaching through ILD cases: Total 3 case presentation during the Symposium on “Recent Updates in IPF – Diagnosis and Management” organised by National Allergy Asthma Bronchitis Institute at Kolkata on 20th June 2019
8. Dr Ritu Kulshrestha was invited faculty and gave presentation on, “Pathology of Idiopathic pulmonary fibrosis” during ILD Conclave 2019 organised by Dept of Respiratory Medicine, KGMU in association with UP Chapter of Indian Chest Society at Lucknow, UP on 19th May 2019
9. Singh Amit, Kulshrestha Ritu, Pandey Apoorva, Kaushik Mahima, Dinda AK presented paper titled, “Efficacy of MePEG-PCL diblock copolymeric nanoparticles and PCL nanoparticles for drug delivery in lung fibrosis”. American Thoracic Society (ATS) meeting from 17-22th May 2019, Dallas Texas

Other Inter-institutional Collaboration:

1. In MRU projects Dr Ritu Kulshrestha is collaborating with All India Institute of Medical Sciences (Prof AK Dinda, Dept of Pathology) in the project titled, “Extracellular matrix remodelling and expression of matrix metalloproteinases in pulmonary fibrosis.”
2. In ICMR Nano task force project Dr Ritu Kulshrestha is collaborating with All India Institute of Medical Sciences (Prof AK Dinda, Dept of Pathology) AIIMS, and INMAS, DRDO (Prof AK Mishra, Scientist G).

Extension and Outreach Activities

Dr Ritu Kulshrestha

Mr. Himanshu Dhanda (Dept of Biotechnology, Amity University Noida.). May 2019- July 2019

Ms. Nipanshi Tyagi, Ms. Soumya Sharma, Mr. Aayush Bahl (Dept of Biotechnology, Amity University Noida.). Jan 2019- April 2019

Faculty Strength: One Faculty Member

PATHOLOGY (UCMS)

Major Activities and Achievements

Pre conference CME - 60th Annual conference of Indian Society of Hematology and Blood Transfusion organized in the department.

Honours / Distinctions

Dr. Priyanka Gogoi inspected Blood Bank as NABH assessor through Quality Council of India Successfully applied for and got reaccreditation of Blood Bank by NABH in the capacity of I/C Blood bank.

Dr. Preeti Diwaker inspected Blood Banks as a blood bank expert through Drug Control

Department, Delhi.

Publications

1. Agarwal R, Yadav RK, Mohta M, Sikka M, Radhakrishnan G. Sepsis in obstetric score(SOS) utility and validation for triaging patients with obstetrics sepsis in emergency department. Evidence from a low income health care setting. *Obstetric Medicine* 2019, 12(2):90-96.
2. Ahuja S, Gogoi P, Diwaker P, Arora VK. (2019). Cytological and Histological Findings of an Extraskeletal Chondroma in the Temporal Region. *EC Clinical and Medical Case Reports*; 2(5): 245-249.
3. Bhattacharya J, Gupta R. Paediatric Chronic Myeloid Leukemia presenting in a mixed phenotypic blast crisis: A rare occurrence. *Turk J Hematol.* 2019 Aug;36(3)
4. Chauhan S, Diwaker P, Singh A, Gogoi P, Arora VK. (2020). Cytological diagnosis of juvenile xanthogranuloma: A rare histiocytic disorder. *Diagn Cytopathol.*; 48(1):66-70.
5. Dixit S, Tanveer N, Kumar H, Diwan H. Smartphone-Assisted Telecytology: An Intraobserver Concordance Study. *Acta Cytol.* 2020;64(5):399-405.(Pubmed Indexed)
6. Dewan P, Dixit A, Gomber S, Kotru M, Banerjee BD, Tyagi V, Malhotra RK Serum and Urinary Hepcidin for Diagnosing Iron-deficiency Anemia in Under-5 Children. *J Pediatr Hematol Oncol.* 2019 May;41(4):e216-e220
7. Garg N, Tanveer N, Gaur JH. Utility of WhatsApp as a Tool for Tele-oncopathology for Oral Lesions. *Indian J Surg Oncol.* 2019 ;10(3):446-450. (Pubmed Indexed)
8. Garg N, Tanveer N, Gaur JH. Smartphone assisted tele-oncopathology in the diagnosis of oral lesions- a comparison of whatsapp and google drive transfer.(Abstract) in Proceedings of 15th International

Telehealth Conference of Telemedicine Society of India(Telemedicon 2019) held at Indian Spinal Injuries Centre,New Delhi on 29th Nov-1st December 2019.Pg20 Oral Paper 16.

- 9 Garg N, Diwaker P, Pathak P, Aggarwal D, Arora VK. (2019). Implementation of the MILAN system for reporting salivary gland cytopathology: Interobserver concordance and cytohistological correlation of discordant cases. *Diagn Cytopathol.*;47(8):769-775.
- 10 Garg N, Kotru M, Kumar D, Pathak R, Sikka M. Correlation of expression of aberrant immunophenotypic markers in T-ALL with its morphology: A pilot study. *J Lab Physicians.* 2018 Oct-Dec;10(4):410-413
- 11 Garg N, Kotru M, Yadav A, Rusia U, Sikka M, Kalra OP. Serum ferritin <70 µg/L predicts functional iron deficiency in patients with chronic kidney disease. *Saudi J Kidney Dis Transpl.* 2018 Sep-Oct;29(5):1035-1041.
- 12 Garg N, More S, Sharma M, Kotru M. Microfilaria: not always associated with eosinophilia. *Trop Doct.* 2019 Jul;49(3):210-212.
- 13 Gayatree A, Tanveer N, Arora VK, Arora V. Are Histomorphological Features Predictive of p16 Immunopositivity Different for Oral and Oropharyngeal Squamous Cell Carcinoma? *Indian J Surg Oncol.* 2020 ;11:248-255. (Pubmed Indexed)
- 14 Goyal A, Sahu RK, Kumar M, Sharma S, Qayyum S, Kaur N, Singh UR, Mehrotra R, Hedau S. p16 promoter methylation, expression, and its association with estrogen receptor, progesterone receptor, and human epidermal growth factor receptor 2 subtype of breast carcinoma. *J Cancer Res Ther.* 2019 Jul-Sep;15(5):1147-1154
- 15 Goyal P, Agarwal R, Srivastava H, Kar R, Sikka M, Mohta M. Serial serum lactic acid in pregnancy associated sepsis for maternal outcome. *The Journal of Obstetrics and Gynaecology of India.* DOI10.1007/s13224-020-01348.
- 16 Goyal R, Tanveer N. Primary Clear Cell Carcinoma of Nasopharynx-a Rare Entity. *Indian J Surg Oncol.* 2020 ;11:134-137.(Pubmed Indexed)
- 17 Grover C, Chauhan A, Sharma S. The case of a bleeding nail. *Indian J Dermatol Venereol Leprol.* 2019 Aug 7. doi: 10.4103/ijdv.IJDVL_772_18. [Epub ahead of print
- 18 Jhamb R, Singh B , Kar R , Gogoi P and Madhu SV (2019). A comparative study of serum vascular endothelial growth factor in patients with tuberculous meningitis with and without stroke *Med Clin Arch*; 3: 1-5
- 19 Kayarkatte MN, Singal A, Pandhi D, Das S, Sharma S. Nail dermoscopy (onychoscopy) findings in the diagnosis of primary onychomycosis: A cross-sectional study. *Indian J Dermatol Venereol Leprol.* 2020;86(4):341-349.
- 20 Kharghoria G, Grover C, Bhattacharya SN, Sharma S. Histopathological evaluation of naillichen planus: a cross-sectional study [published online ahead of print, 2020 Jun 23]. *J Cutan Pathol.* 2020;10.1111/cup.13783.
- 21 Krishna Latha T, Verma A, Thakur GK, Banerjee B, Kaur N, Singh UR, Sharma S. DownRegulation of KAI1/CD82 in Lymph Node Positive and Advanced T-Stage Group in Breast Cancer Patients. *Asian Pac J Cancer Prev.* 2019 Nov 1;20(11):3321-3329

- 22 Kumari A, Diwaker P, Gogoi P, Arora VK, Garg PK, Pandey R. (2019). Primary extraneural ependymoma of the broad ligament: A rare entity. *J Cancer Res Ther.*; 15(6):1398-1401.
- 23 Mangla G, Garg N, Bansal D, Kotru M, Sikka M. Peripheral Blood and Bone Marrow Findings in Chronic Alcoholics with Special Reference to Acquired Sideroblastic Anemia. *Ind J Hematol Blood Transf* 2019,
- 24 Neogi SB, Devasenapathy N, Singh R, Bhushan H, Shah D, Divakar H, Zodpey S, Malik S, Nanda S, Mittal P, Batra A, Chauhan MB, Yadav S, Dongre H, Saluja S, Malhotra V, Gupta A, Sangwan S, Radhika AG, Singh A, Bhaskaran S, Kotru M, Sikka M, Agarwal S, Francis P, Mwingak K, Dinesh Baswa D. Safety and effectiveness of intravenous iron sucrose versus standard oral iron therapy in pregnant women with moderate-to-severe anaemia in India: a multicentre, open-label, phase 3, randomised, controlled trial. *Lancet Global Health* 2019;7: e1706–16.
- 25 Pathak P, Tanveer N. Adenoid Basal Carcinoma of the Uterine Cervix in Association with Keratinizing Squamous Cell Carcinoma: a Rare Diagnosis. *Indian J Surg Oncol.* 2019 ;10(3):451-453. (PubMed Indexed)
- 26 Rai G, Roy P, Gupta N, Sharma S, Dar SA, Ansari MA, Ramachandran VG, Das S. Computed Tomography Score an Excellent Marker: Differentiates Eosinophilic and Non- eosinophilic Variants of Chronic Rhinosinusitis with Nasal Polyp. *Indian J Otolaryngol Head Neck Surg.* 2019 Nov;71(Suppl 3):1787-1792
- 27 Sikka M, Sodhi R, Kotru M, Singh G. Markers of fibrinolysis in Indian patients with isolated head trauma. *Asian J of Neurosurgery* 2019, 14: 118-121.
- 28 Sharma A, Ahuja S, Diwaker P, Wadhwa N, Arora VK. (2019). Acinic cell carcinoma of the parotid gland: A diagnostic dilemma on cytology. *Malays J Pathol.*;41(2):191-194.
- 29 Sharma P, Sharma S, Kaul Murthy S, Singal A, Grover C. Comparison of four softening agents used on formalin-fixed paraffin-embedded nail biopsies with inflammatory disease. *J Histotechnol.* 2019 Aug 21:1-8. doi: 10.1080/01478885.2019. 1642434. [Epub ahead of print]
- 30 Sinha P, Sikka M, Sharma S, Guleria K, Gogoi P. Factor V Leiden mutation and acquired APC resistance in Indian women with recurrent fetal loss. *Tropical Journal of Obstetrics and Gynaecology* 2020; 37:58-61
- 31 Sikka M, Sodhi R, Kotru M, Singh G. Markers of Fibrinolysis in Indian Patients with Isolated Head Trauma. *Asian J Neurosurg.* 2019 Jan-Mar;14(1):118-121.
- 32 Tanveer N, Sharma S, Garg PK, Gupta S. Periportal Tuberculous Lymphadenitis as a rare cause of obstructive jaundice. (Abstract) in Proceedings of 3rd Amrita Annual Pathology Update (AAPUD 2019) - Update In Pathology Of Gut And Pancreas held at Kochi, Kerala on 13-14 July 2019. Pg 60 CR-34.
- 33 Yadav P, Tanveer N. Giant submucosal lipoma of colon causing intussusception in an adult. *Clin Cancer Investig J* 2020;9:25-6 (Indexed in Index Copernicus)
- 34 Yadav S, Gupta R, Anuradha S, Makkar AM. A rare case of disseminated penicilliosis - first of its kind from North India. *Indian J Pathol Microbiol* 2019;62:156-8.

Research Projects

Dr. Mrinalini Kotru - PI for 'BCR-ABL fusion transcript in pediatric acute lymphoblastic leukemia' in MRU as an extra –mural grant of 2.5 lac for 2 years

Conferences Organized

Pre conference CME - 60th Annual conference of Indian Society of Hematology and Blood Transfusion on 6-11-2019

Pre conference workshop on Hemolytic anemia. Organized as part of 60th Annual Conference of Indian Society of Hematology and Blood Transfusion, 7-11- 2019

Seminars/ Conferences Presentations (National / International)

Dr Sonal Sharma

1. Essentials of Photomicrography for the Clinician. First Asia Pacific Summit on Clinical Photography 2019, 16th-18th March 2019, Gurugram, India.
2. Dermatopathology Workshop-cum-CME, VMMC and Safdarjung Hospital, Delhi, 27th July 2019.
3. Thyroid cytopathology – recent advances and update on The Bethesda System (TBSRTC II, 2018) at UP Cytocon 2019. 7th Annual Conference of UP chapter of Indian Academy of Cytologists. 28-29th September 2019, NOIDA
4. Resource person at Ethics in Biomedical Research Series1.0, 6 th November 2019 at Maulana Azad Institute of Dental sciences, New Delhi
5. Speaker at First Annual Meeting of Asian Society of Dermatopathology and Annual Meeting of Dermatopathology Society of India, 15-17 th November 2019, New Delhi.
6. High grade tumors salivary glands. CME Salivary gland Cytopathology, IAC- Delhi chapter. ABVIMS & Dr RML Hospital, New Delhi. 15 th Feb 2020

Dr. Richa Gupta

Delivered talk on “Role of flow cytometry in Hemolytic Anemias” in Annual Conference of Indian Society of Hematology and Blood Transfusion (Hematocon 2019) in November, 2019.

Delivered talk on “Interesting Cases in Hematology” in Annual Conference of Pathology – UP Chapter (UP Pathmicon- 2019) in November, 2019.

Delivered guest lecture on “Newer RBC parameters in hematology analysers” in North Zone Pedicon 2019 in September 2019.

Delivered guest lecture on “Lab diagnosis of Hemophilia” in aual conferece of Hemophilia Federation of India in June 2019

Delivered guest lecture on “Current Strategies in Thalassemia Diagnosis” in Sharda Medical college, Greater Noida in May 2019

National / International MoUs Signed

Delivered talk on “Interesting Caess in Hematology” in 6th Euroasian Hematology Forum in Moscow, Russia in May 2019

Faculty Strength - 12 Faculty Members

PATHOLOGY ARMY HOSPITAL (R&R)

Major Activities and Achievements

The Department of Pathology is the state of the art Pathology Centre in Indian Armed Forces. It provides modern diagnostics including onco-pathology, hemato-pathology and nephropathology facilities. It also has got full fledged molecular diagnostics facility. The residents won PG Hematology QUIZ (national level) during 60th Annual Conference of the Indian Society of Hematology and Blood Transfusion held at New Delhi from 07-10 Nov 2019.

Awards and Honours

Our residents won PG Hematology QUIZ (national level) during 60th Annual Conference of the Indian Society of Hematology and Blood Transfusion held at New Delhi from 07-10 Nov 2019.

Publications in Journals

1. Dimri U, Chatterjee T, Mallhi RS, Philip J, Kushwaha N. Inherited thrombophilia in unprovoked venous thromboembolism: Is non'O'blood group an additional culprit in Indian patients?. Medical Journal Armed Forces India. 2019 Apr 1;75(2):152-7.
2. Prabhakar A, Chatterjee T, Bajaj N, Tyagi T, Sahu A, Gupta N, Kumari B, Nair V, Kumar B, Ashraf MZ. Venous thrombosis at altitude presents with distinct biochemical profiles: a comparative study from the Himalayas to the plains. Blood Advances. 2019 Nov 25;3(22):3713-23.
3. Gupta D, Mendonca S, Chakraborty S, Chatterjee T. Post Transplant Lymphoproliferative Disorder. Indian Journal of Hematology and Blood Transfusion. 2019:1-9.
4. Yanamandra U, Kumar S, Kapoor R, Ahuja A, Chatterjee T, Das S, Nair V. Interim Analysis of Indian Multicentre Phase II Randomized Study Comparing Three Subcutaneous Bortezomib-based Post Stem Cell Transplantation Consolidation/Maintenance Regimens for Newly Diagnosed Multiple Myeloma Patients (IMPOSE-Bortecan) Study Number: 4905/2017. Clinical Lymphoma, Myeloma and Leukemia. 2019 Oct 1;19(10):e304-5.
5. Yanamandra U, Ahuja A, John AR, Kishore B, Kapoor R, Kumar S, Pandit A, Chatterjee T, Das S. Concordance Analysis of PET-CT and 10 Color MFC used for MRD assessment with other serological remission markers in Newly Diagnosed Multiple Myeloma patients Post-ASCT. Clinical Lymphoma, Myeloma and Leukemia. 2019 Oct 1;19(10):e188.
6. Chanukuppa V, More TH, Taunk K, Taware R, Chatterjee T, Sharma S, Rapole S. Serum metabolomic alterations in multiple myeloma revealed by targeted and untargeted metabolomics approaches: a pilot study. RSC Advances. 2019;9(51):29522-32.
7. Dr Tathagata Chatterjee & Dr Ankur Ahuja. Highlights of Abstracts on Plasma Cell Dyscrasia in the Annual Conference ISHBT (Kochi). Indian Journal of Hematology and Blood Transfusion Indian J Hematol Blood Transfus (2019):1-6

8. Ankur Ahuja, Seema Tyagi, Hara Prasad Pati, RenuSaxena et al. Utility of Lupus Anticoagulant Assays (APTT-LA, KCT, DPT and DRVVT) in Detection of Antiphospholipid Syndrome (APS) in High Risk Pregnancy Cases. *Indian J Hematol Blood Transfus*; 23 Jan 2019, pp1-7
9. Chandra, D., Singh, J., Deka, R., Ahuja A et al..T Regulatory Cells in Donor Grafts May Predict the Severity of Acute Graft Versus Host Disease After Matched Sibling Donor Allogenic Peripheral Blood Stem Cell Transplantation. *Indian J Hematol Blood Transfus* (2019).
10. Preeti Tripathi, H. P. Pati, Manoranjan Mahapatra, Seema Tyagi, Ankur Ahuja, Renu Saxena. Utility of Labile Plasma Iron Assay in Thalassemia Major Patients. *Indian Journal of Hematology and Blood Transfusion: April 2019, Volume 35, Issue 2, pp 272–277*
11. Agarwal M., Tewari R., Guleria P., Shijith KP., Chatterjee T. Congenital Infantile myofibroma; case report and review of literature (Accepted for publication in human pathology case reports)
12. Sharma P, Baloda V, Gahlot GP, Singh A, Mehta R, Vishnubathla S, Kapoor K, Ahuja V, Gupta SD, Makharia GK, Das P. Clinical, endoscopic, and histological differentiation between celiac disease and tropical sprue: A systematic review. *J GastroenterolHepatol*. 2019 Jan;34(1):74-83.
13. Das P, Gahlot GP, Singh A, Baloda V, Rawat R, Verma AK, Khanna G, Roy M, George A, Singh A, Nalwa A, Ramteke P, Yadav R, Ahuja V, Sreenivas V, Gupta SD, Makharia GK. Quantitative histology-based classification system for assessment of the intestinal mucosal histological changes in patients with celiac disease. *Intest Res*. 2019;17(3):387-397.
14. Gahlot GPS, Das P, Baloda V, Singh Alka, V Sreenivas, Gupta Datta Siddhartha, MakhariaGovind K. Duodenal mucosal immune cells in treatment-naïve adult patients with celiac disease having different histological grades and controls. *Indian J Pathol Microbiol*. 2019;62(3):399-404.
15. Jain Mayuri, Sarin Arti, Suhag V, Gahlot G PS, Jain Anurag, Bandhopadhyaya A. Comparison of efficacy of positron emission tomography/computed tomography with contrast-enhanced computed tomography in pretreatment evaluation of head and neck cancers: An institutional experience. *Ind J of Paed and Med Oncol* : 2019;40(2):217-21.
16. Dutta V, Chopra M, Kovilapu UB, Gahlot GPS. Solitary pulmonary nodule: An interesting clinical mimicry of pulmonary tuberculosis. *Med J Armed Forces India*. 2019;75(1):115–18.
17. Chopra M, Gahlot G, Vardhan V, Sahai K, Pandey IM, Chopra M. Attending EBUS-TBNA Workshops Improves Yield of Conventional TBNA. *J Assoc Physicians India*. 2019;67(4):101.
18. Phulware RH, Gahlot GPS, Malik R, Gupta SD, Das P. Microvillous Inclusion; Disease as a Cause of Protracted Diarrhea. *Indian J Pediatr*. 2019;86(9):854-56.
19. Ahuja Ankur, Tathagata Chatterjee, Gunjan M, Gahlot PS Gaurav, Baranwal Ajay Kumar, Kanwaljeet Singh, Beenu Singh. “Leishmaniasis: Rainbow of presentations unveiled on bone marrow”. *International Journal of Scientific Research under process of publication Volume-9 | Issue-1 | January-2020*.
20. Guleria P, Mallick SR, Ramteke P, Jain D. Cytomorphological clues for a correct diagnosis of anaplastic lymphoma kinase-positive large B-cell lymphoma. *Cytopathology*. 2019 Jul;30(4):432-5.
21. Singh V, Guleria P, Malik PS, Mohan A, Thulkar S, Pandey RM, Luthra K, Arava S, Ray R, Jain D. Epidermal growth factor receptor (EGFR), KRAS, and BRAF mutations in lung adenocarcinomas: A study from India. *Current problems in cancer*. 2019 Oct 1;43(5):391-401.

22. Kakkar A, Guleria P, Madan K, Kumar R, Kumar S, Jain D. Immunohistochemical Assessment of BAP1 Protein in Mucoepidermoid Carcinomas. *Indian Journal of Otolaryngology and Head & Neck Surgery*. 2019 Mar 4;71(1):33-7.
23. Guleria P, Madan K, Kumar S, Saikia J, Jain D. Pulmonary epithelial myoepithelial carcinoma with papillary architecture: an uncommon morphology of a rare tumour. *Pathology*. 2019 Jun 1;51(4):443-5.
24. Phulwara RH, Guleria P, Iyer VK, Bakhshi S, Seth R, Mridha AR, Jain D, Mallick S, Arava SK, Agarwal S, Kaushal S. Cytological diagnosis of Langerhans cell histiocytosis: A series of 47 cases. *Cytopathology*. 2019 Apr 24.
25. Guleria P, Jain D. Thymic lesions of the paediatric age group: a comprehensive review of non-neoplastic and neoplastic etiologies. *Mediastinum*. 2019 Jun 13;3.
26. Guleria P, Parshad R, Malik PS, Ray R, Pandey RM, Jain D. Histotyping of Indian thymomas: A clinicopathologic study from north India. *The Indian journal of medical research*. 2019 Aug;150(2):153.
27. Guleria P, Agarwal S, Iyer VK, Jain D, Mathur SR, Yadav D. Subcategorisation of AUS/FLUS thyroid lesions as per the 2017 Bethesda System for Reporting Thyroid Cytopathology: a retrospective study from a tertiary care centre analysing risk of malignancy (ROM) of the different subcategories. *Journal of clinical pathology*. 2019 Nov 1;72(11):771-7.
28. Hareram Pandey, Kanwaljeet Singh, Ravi Ranjan, Sanjay Kumar Pandey, Amit Sharma, Kamal Kishor et al. Clinical variability and molecular characterization of Hbs/G γ ($A\gamma\delta\beta$)0-thal and Hbs/HPFH in Indian sickle cell disease patients: AIIMS experience. *Hematology*. 2019 Dec;24(1):349-352
29. Singh Kanwaljeet, Chhikara Sunita, Chaubey Rekha, Mahapatra Manoranjan, Saxena Renu. Influence of JAK2V617F allele burden on clinical phenotype of polycythemia vera patients: A study from India. *South Asian J Cancer*. 2019 Apr-Jun;8(2):127-129.
30. Sazawal Sudha, Chhikara Sunita, Singh Kanwaljeet, Chaubey Rekha, Mahapatra Manoranjan, Seth Tulika, Saxena Renu. Distribution of common BCR-ABL fusion transcripts and their impact on treatment response in Imatinib treated CML patients: A study from India. *Indian J Pathol Microbiol*. 2019 Apr-Jun;62(2):256-260. doi: 10.4103/IJPM.IJPM_726_17
31. Singh V, Gupta K, Dewana S, Mandal AK. Spotting the pigmented 'Monster': primary melanoma in urinary bladder. *BMJ Case Rep*. 2019 Dec 23;12(12).
32. Singh V, Gupta K, Gupta O, Singh A, Salunke P. Solitary tumefactive demyelinating pseudotumor masquerading as a low-grade glioma in a child. *Childs Nerv Syst*. 2019 Dec;35(12):2255-2257.
33. Singh V, Gupta K, Preet Singh A, Salunke P. A 43-year-old man with dural-based mass with bone destruction. *Brain Pathol*. 2019 Sep;29(5):697-698.
34. Singh V, Parwaiz A, Radotra BD, Singh M. Inverted mucoepidermoid papilloma of conjunctiva: A rare histological entity. *Indian J Pathol Microbiol*. 2019 Jul-Sep;62(3):481-482
35. Singh V, Devana SK, Gorski U, Bal A. Isolated Renal Hydatid Cyst Masquerading as Cystic Renal Tumor. *Urology*. 2019 Nov;133:e11-e12
36. Singh V, Gupta K, Salunke P. Monostotic craniofacial fibrous dysplasia: report of two cases with interesting histology. *Autops Case Rep*. 2019 Jun 19;9(2):e2018092

37. Singh V, Gupta K, Salunke P, Kumar S, Radotra BD, Vasishta RK. Rosette-forming and papillary glioneuronal tumors - A clinicopathological and molecular analysis. *Clin Neuropathol.* 2019 Jul/Aug;38(4):180-188
38. Singh V, Singla S, Singh H, Sharma V, Das A. Massive hematemesis in a case of gastric amyloidosis masquerading as gastric carcinoma. *Autops Case Rep.* 2019 Mar 8;9(1):e2018074
39. Singh V, Gupta K, Singh AP, Salunke P. Solitary fibrous tumor/hemangiopericytoma of the optic canal. *Clin Neuropathol.* 2019 Mar/Apr;38(2):74-79.
40. Singh V, Gupta K, Salunke P, Dhandapani SS. Null Cell Adenoma of the Pituitary: Pseudo-rosettes Say It Best When Immunohistochemistry Says Nothing At All! *Head Neck Pathol.* 2019 Dec;13(4):677-680.
41. Vasnik GK, Venkatesan S, Sharma S, Malik A. Clinicopathological profile of Waldenström's macroglobulinemia: Experience from a tertiary care center. *Med J DY Patil Vidyapeeth* 2020;13:151-5. (Original article, corresponding author)
42. Kohli UA, Rajput M, Venkatesan S. Association of maternal hemoglobin and iron stores with neonatal hemoglobin and iron stores, *Medical Journal Armed Forces India*, <https://doi.org/10.1016/j.mjafi.2019.11.002> (Original article)

Editorial Board of Journals

1. Dr Rohit Tewari *Journal of Cytology*, the *Journal of Cytology* is the official Quarterly publication of the Indian Academy of Cytologists

Research Projects Undertaken

1. AFMRC projects: To study prevalence of 07 Mutation panel (CBFB-MYH11, BCR-ABL1, PML-RARA, AML1-ETO, C-KIT, NPM1 and FLT3) in Acute Myelogenous Leukemia (AML) and its role in diagnosis of AML, in Indian Population
2. AFMRC projects: To describe the molecular heterogeneity in Triple Negative Breast Cancer cases using surrogate IHC markers in a tertiary care center of north India
3. AFMRC projects: Study of immune cell subsets and its role in Graft- Versus- Host Disease (GVHD) in allogeneic hematopoietic stem cell transplant (HSCT) cases.
4. AFMRC projects: Cross sectional observational study of prevalence and clinicopathological features of MSI status in non-colorectal Gastrointestinal malignancies

Departmental Research Projects Undertaken

1. Aberrant expression of CD marker in Acute leukemia and its clinico pathological correlation with induction outcome.
2. Expression of antibodies to PLA2R and THSD7A on kidney biopsy by IHC and histomorphological correlation in cases of Membranous nephropathy
3. To differentiate primary vs secondary glioblastoma based on IHC (IDH1, ATRX, p53 & EGFR)
4. Significance and comparison of serological biomarkers, flowcytometry markers and new hematological markers in cases of sepsis

Seminars Organised

1. WET workshop Lymphoma lab aspects under ISHBT was conducted on 07 Nov 2019.

Conferences Organised

1. IAPM Delhi Chapter Meet was conducted At Army Hosp, R & R on 23 Nov 2019

Presentations in Conferences/Seminars

1. Dr S Venkatesan- Delivered a talk on “APLA- diagnosis and risk stratification” during CME of 60th Annual Conference of the Indian Society of Hematology and Blood Transfusion held at New Delhi from 07-10 Nov 2019.
2. Dr S Venkatesan- Conducted a microcopy session on “Bone marrow involvement by lymphoma” during the workshop on Lymphoma held at AH(R&R) on 07 Nov 2019.
3. Dr S Venkatesan- Attended RGCON 2020, Hemato-oncology update org by Rajiv Gandhi Cancer Institute, Delhi from 07-09 Feb 2020.
4. Dr Rohit Tewari – Conducted PG quiz in Cytocon 2019 at PGI Chandigarh
5. APCON 2019 at PGI Chandigarh was attended by 02 Faculty members and 03 residents.

PEDIATRICS (MAMC)

Major Activities and Achievements

The department of Pathology worked as the center of coordination and arrangements of specific needs for COVID patients with all the other departments of MAMC. Organized child friendly wards and play areas for COVID children so as to provide improved and holistic care to the children.

Publications

- Children's Color Trail Test for Objective Assessment of Attention in Children with Attention Deficit Hyperactivity Disorder: A Diagnostic Accuracy Study. Juneja M, Mehar H, Sairam S, Verma N, Jain R, Mishra D. Indian Pediatr. 2019 Dec 15;56(12):1025-1028.
- Prevalence of Epilepsy and Inter-Ictal Epileptiform Discharges in Children with Autism and Attention-Deficit Hyperactivity Disorder. Anukirthiga B, Mishra D, Pandey S, Juneja M, Sharma N. Indian J Pediatr. 2019 Oct;86(10):897-902. doi: 10.1007/s12098-019-02977-6. Epub 2019 May 24.
- Sleep Problems and Their Correlates in Children with Autism Spectrum Disorder: An Indian Study. Tyagi V, Juneja M, Jain R. J Autism Dev Disord. 2019 Mar;49(3):1169-1181. doi: 10.1007/s10803-018-3820-6.
- Clinico-Etiological Profile of Pediatric Refractory Status Epilepticus at a Public Hospital in India. Sadik KC, Mishra D, Juneja M, Jhamb U. J Epilepsy Res. 2019 Jun 30;9(1):36-41. doi: 10.14581/jer.19004.
- Clinico-etiological Profile and Developmental Status of Infants Aged 1-24 months with Epilepsy. Sahu PK, Mishra D, Juneja M, Taneja K. Indian J Pediatr. 2019 Aug;86(8):681-685. doi: 10.1007/s12098-019-02943-2.

- Drug-resistant epilepsy in Indian children at a tertiary-care public hospital. Kharod P, Mishra D, Juneja M. *Childs Nerv Syst.* 2019 May;35(5):775-778. doi: 10.1007/s00381-019-04084-5.
- Longitudinally Extensive Transverse Myelitis. Chawla D, Mishra D, Singh S, Juneja M. *Indian J Pediatr.* 2019 Jan;86(1):91-92. doi: 10.1007/s12098-018-2702-4.
- Mantan M, Singh S. Infection Associated Relapses in Children with Nephrotic Syndrome: A Short-term Outcome Study. *Saudi J Kidney Dis Transpl* 2019;30(6): 1245-1253.
- Agrwal S, Dabas A, Mantan M, Yadav S. Hemophagocytic lymphohistiocytosis with neurological manifestations in an infant with scrub typhus: a rare fatal occurrence. *Trop Doct.* 2019 ;49:52-53.
- Agrwal S, Mantan M, Dabas A. An unusual case of familial systemic lupus erythematosus with distal renal tubular acidosis and hemolytic anaemia. *Iran J Kidney Dis.* 2019;13:337-339.
- Susarla SK, Gupta M, Mantan M, Dhongade R, Bhave S, Das RK, et al. Immunogenicity and safety of a liquid Pentavalent (DTwP-Hb-Hib) combination vaccine manufactured by Human Biologicals Institute in 6-8 weeks old healthy infants: A phase III, randomized, single blind, non-inferiority study. *Vaccine.* 2019 Aug 23;37(36):5452-5459.
- Mantan M, Batra V. Renal biopsy in children. *Indian Pediatr* 2020;57: 452-458.
- Agrawal A, Bhinder OS, Mishra D, Juneja M (2020). HbE-Beta thalassemia with Moyamoya syndrome. *Indian J Pediatr.* 87:476-7.
- Anukirthiga B, Mishra D, Pandey S, Juneja M, Sharma N (2019). Prevalence of epilepsy and inter-ictal epileptiform discharges in children with autism and attention-deficit hyperactivity disorder. *Indian J Pediatr.* 86:897-902.
- Dabas A, Verma D, Kumar D, Mishra D. (2020). Undergraduate medical students' experience with foundation course at a public medical college in India. *Indian Pediatr.* 2020;57:267-9.
- Juneja M, Mehar H, Sairam S, Verma N, Jain R, Mishra D (2019). Children's color trail test for objective assessment of attention in children with attention deficit hyperactive disorder. *Indian Pediatr;*56:1025-8.
- Khan AM, Gupta P, Mishra D (2019). Three question approach: A simplified framework for selecting study designs. *Indian Pediatr;*56:669-72.
- Krishnan AV, Mishra D (2020). Antisense oligonucleotides: A unique treatment approach. *Indian Pediatr.* 2020;57:170-76.
- Mishra D, Sahu PK, Juneja M, Taneja K (2019). Clinico-etiological profile and developmental status of infants aged 1-24 months with epilepsy. *Indian J Pediatr;*86:681-85.
- Patel PK, Mishra D, Juneja M (2019). Drug-resistant epilepsy in Indian children at a tertiary-care public hospital. *Childs Nerv Sys;*35:775-78.
- Sadik KC, Mishra D, Juneja M, Jhamb U (2019). Clinico-etiological profile of refractory status epilepticus in pediatric inpatients at a public hospital in India. *J Epilepsy Res;*9:36-41.

- Srivastava K, Sehgal R, Konanki R, et al for Association of Child Neurology (AOCN)-Indian Epilepsy Society (IES) SOLACE Expert Group (2019). AOCN-IES Consensus Document on Parental Counseling of Children with Epilepsy. *Indian J Pediatr*;86:608-16.
- Tyagi V, Agrawal A, Mishra D, Juneja M (2020). Status dystonicus: A rare manifestation of cerebral palsy. *Indian J Pediatr*; 87:563.
- Mishra D, Shah D (2019). *The Art and Science of Writing a Scientific Paper*. CBS Publishers; ISBN:978-93-89261-80-6.
- Mishra D, Shah D (2019). *Best of Indian Pediatrics*, 3rd Ed. CBS Publishers, Delhi; 2019. ISBN: 978-93-88725-62-0.
- Agrwal S, Dabas A, Pal T, Jhamb U (2019). Goldston syndrome with congenital hepatic fibrosis: A rare cause of neonatal cholestasis. *Intractable Rare Dis Res*, 8(2),154-157.
- Agrwal S, Mantan M, Dabas A. (2019) An unusual case of familial systemic lupus erythematosus with distal renal tubular acidosis and hemolytic anemia. *Iran J Kidney Dis*, 13(5), 337–339.
- Chellani H., Jena T.K., Dabas A. (2019, June 18) Child Care Services: Possible Solutions to Improve Outcomes. In: Leal Filho W., Azul A., Brandli L., Özuyar P., Wall T. (eds) *Gender Equality. Encyclopedia of the UN Sustainable Development Goals*. Springer, Cham. Retrieved from: https://doi.org/10.1007/978-3-319-70060-1_20-1.
- Dabas A (2019). Scorpion Envenomation to Therapeutics. *Indian Pediatr*. 56(4),323-324.
- Dabas A, Vats P, Sharma R, Singh P, Seth A, Jain V, et al (2020). Management of infants with Congenital adrenal hyperplasia (CAH): a review. *Indian Pediatr*, 57(2),159–164.
- Dabas A, Verma D, Kumar D, Mishra D. (2020). Undergraduate Medical Students' Experience with Foundation Course at a Public Medical College in India. *Indian Pediatr*,57(3),261-263.
- Dabas A, Yadav S. (2020) Vaccine Response With OPV: Should We Worry?. *Indian Pediatr*, 57(2), 172–173.
- Dabas A., Chellani H., Jena T.K. (2019, July 27) Exclusive Breastfeeding: Challenges and Way Forward. In: Leal Filho W., Azul A., Brandli L., Özuyar P., Wall T. (eds) *Gender Equality. Encyclopedia of the UN Sustainable Development Goals*. Springer, Cham. Retrieved from: https://doi.org/10.1007/978-3-319-70060-1_23-1.
- Marwaha RK, Dabas A. (2019). Bioavailability of nano emulsion formulations vs conventional fat soluble preparations of cholecalciferol (D3) - An overview. *J Clin Orthop Trauma*,10(6),1094–1096.
- Ray R, Dabas A, Shah D, Malhotra RK, Madhu SV, Gupta P. (2019) Seasonal Variation in Serum 25-hydroxy Vitamin D and its Association with Clinical Morbidity in Healthy Infants from Northern India. *Indian Pediatr*,56(12),1020–1024.
- Vats P, Dabas A, Jain V, Seth A, Yadav S, Kabra M, et al. (2020). Newborn screening and diagnosis of babies with Congenital adrenal hyperplasia: a review. *Indian Pediatr*, 57(1), 49–55.
- Gupta, P., Shah, D., Kumar, P., Bedi, N., Mittal, H. G., Mishra, K., Khalil, S., Elizabeth, K. E., Dalal, R., Harish, R., Kinjawadekar, U., Indumathi, K., Gandhi, S. S., Dadhich, J. P., Mohanty, N., Gaur, A.,

Rawat, A. K., Basu, S., Singh, R., Kumar, R. R., ... Pediatric And Adolescent Nutrition Society (Nutrition Chapter) Of Indian Academy Of Pediatrics (2019). Indian Academy of Pediatrics Guidelines on the Fast and Junk Foods, Sugar Sweetened Beverages, Fruit Juices, and Energy Drinks. Indian pediatrics, 56(10), 849–863..

- Gupta G, Kumar D, Trivedi M (2019) Acute lymphoblastic leukemia in a child presenting primarily with priapism. J Indian Assoc Pediatr Surg 2020;25:52-4.
- Kumar D, Gupta G, Jhamb U.(2019) IDDF2019-ABS-0014 Gastrointestinal symptoms among hospitalized children admitted with h1n1 infection: a report from a tertiary hospital in north India. Gut 2019;68:A61.
- Aggarwal N, Aggarwal A, Haldorai M, Wajid A, Sahoo D, Kaur K, et al. Identification of enteral nutrition (en) related myths amongst parents and a comparison between nutritional status of tube fed versus orally fed pediatric oncology patients. Pediatric Hematology Oncology Journal 4 (2019) S56eS61
- Saini N, Kumar D, Swarnim S, Bhatt D, Kishore S. Comparison of antistreptolysin O and anti-deoxyribonucleic B titers in healthy children to those with acute pharyngitis, acute rheumatic fever, and rheumatic heart disease aged 5–15 years. Annals of pediatric cardiology. 2019 Sep;12(3):195.
- Shipra Agrwal1, Aashima Dabas, Tej Pal, Urmila Jhamb. Goldston syndrome with congenital hepatic fibrosis: A rare cause of neonatal cholestasis. Intractable & Rare Diseases Research. 2019; 8(2):154-157.
- KC Sadik, Devendra Mishra, , Monica Juneja, Urmila Jhamb, Clinico-Etiological Profile of Pediatric Refractory Status Epilepticus at a Public Hospital in India J Epilepsy Res. 2019 Jun; 9(1): 36–41. doi: 10.14581/jer.19004

Journals

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board

Books	Chapter
Dr. M. Mantan	Chapter titled “Acute Kidney Injury in Newborn” in the book “Principles of Pediatric and Neonatal Emergencies” 4th edition.
Deepak Kumar	Vascular access in pediatric patients, Textbook of Pediatrics and Neonatal emergencies. Publisher- Jaypee publishers. Chief Editor – Dr Piyush Gupta.
Dr Urmila Jhamb	Management of Peds COVID for e book of Govt of NCT Delhi

Research Projects

Ongoing Project

Dr. Monica Juneja

1. Funding Agency: Biotechnology Industry Research Assistance Council (BIRAC) Big 13 Grant / July 2019 (for 21 months) / Title-‘Development of an Artificial Intelligence based digital platform to screen children for Autism Spectrum Disorder (ASD): A Cross-sectional and multi-site study in India’/48.12 lakhs

2. Funding Agency: Medical Research Council, UK / April 2018/ Title-Communication entered Parent mediated treatment for Autism Spectrum Disorder in South Asia (COMPASS) / Rs 11,21,59, 844/-

Dr. Devender Mishra

1. Department of Science & Technology. 2-years, 2019. Effect of Yoga in Addition to Standard Treatment on Disability in Children Having Migraine Without Aura: A Randomized, Controlled trial. ~20 Lakhs

Dr. A. Agarwal

1. Co investigator:-Indian network for Streptococcus Pneumoniae and PCV Impact Research (INSPIRE) (October 2018 ongoing)
2. Principal Investigator:-A Phase IV, Randomized, Controlled Study of the Safety and Immunogenicity of Rabishield + Rabivax-S Post-exposure Prophylaxis regimen in Patients with Potential Rabies Exposure. (Ongoing since October 2019)
3. Principal Investigator:-An Open label, Randomized, Active-controlled, Multi-centric Phase-II/III Study in Indian Toddlers and Infants to Assess the Immunogenicity and Safety of SIPL HEXASIL™ (DTwP-HepB-IPV-Hib) Vaccine in Comparison with SIPL Pentavac (DTwP-HepB-Hib) + Poliovac (IPV) Vaccines, Administered as Separate Injections. (Phase 2 ongoing since December 2019)

Dr. Raghvendra Singh

1. Co-Investigator in the study titled 'Zinc as an adjunct for the treatment of clinical severe infection in infants younger than 2 months.' By THSTI and Department of Biotechnology, Govt of India.
2. Co-Investigator in the study driven by INCLIN and Ministry of Health & Family Welfare, Govt of India titled 'Multicenter active AEFI Sentinel Surveillance in India (MAASS-INDIA) as a Co-Investigator.'
3. Principal Investigator for a clinical trial registered with DCGI sponsored by Shantha Biotechnics Titled SH60003 on a Lot to lot Safety and Immunogenicity study for a prospective candidate Hexavalent vaccine.
4. Principal Investigator for a clinical trial registered with DCGI sponsored by A randomized, double blind, placebo control parallel group multicentre, comparative study to assess the safety and efficacy of Enterogermina in combination with ORT and Zinc versus placebo for 5 days in the treatment of acute diarrhea in children titled LPS14914 study.

Dr. Puneet K Sahi

1. ACCESS INDIA Study (Accessing Childhood Cancer Services in INDIA): a multi centre project started w.e.f. November 2019 after ethics committee approval (local PI)
2. Clinico-epidemiological, laboratory, radiological profile and outcome of SARS-CoV-2 in children: A single centre experience (PI)
3. Impact of COVID-19 pandemic on the mental health status of admitted patients: a cross-sectional survey (PI)
4. Perceived limitations to healthcare access in pediatric patients with chronic diseases amid the COVID-19 pandemic: a survey (PI)

5. Perceived limitations to healthcare delivery to pediatric patients with non-COVID illnesses amid the COVID-19 pandemic: a healthcare survey (PI)

Dr. Swarnim

1. Effect of flipped classroom methodology vs traditional teaching on gain in knowledge of undergraduate medical students: A non-randomized trial
2. Medical Education During COVID-19: Faculty and learner's Perspective

Dr. Pallavi

1. Effect of flipped classroom methodology vs traditional teaching on gain in knowledge of undergraduate medical students: A non-randomized trial

Dr Urmila Jhamb

1. PI for the study titled 'Zinc as an adjunct for the treatment of clinical severe infection in infants younger than 2 months.' By THSTI and Department of Biotechnology, Govt of India.
2. PI for WHO project "Severe Covid-19 in hospitalized children aged 0-19 in low and middle income countries: a WHO coordinated multicounty cohort study in a network of hospitals" approved for MAMC
3. Rolling out a TASK (Transport of sick kids) module along with Dr Romit Saxena as part of IAP action plan for 2021
4. Co PI for Role of Ivermectin in treatment of COVID 19 disease in children
5. PI for Clinico-epidemiological, laboratory, radiological profile and outcome of SARS-CoV-2 in children: A single centre experience

Number and title of collaborative patents-Industry

Dr. M. Juneja	Filed a patent under category 'Library/ dramatics' on autism intervention for young children - Title: CHAMPION: A MAMC Model ['Caregiver administered Holistic management Programme for Individualized Optimal Nurturing'] (in process)
Dr. M. Juneja	Filed a patent for Cinematograph Film works on 'Cerebral Palsy and Oral Health 'in association with MAIDS. (in process)

Seminars Organized

1. Dr. M. Juneja delivered a talk on 'Behavioral problems and hyperactivity in epilepsy-role of methylphenidate' during NuPed 2019 Theme: Difficult Childhood Epilepsy held on 14th April 2019.
2. Dr. M. Juneja delivered a talk on 'ADHD Management in Children' during 'NATIONAL WORKSHOP ON NEURODEVELOPMENTAL DISORDERS, 3rd November 2019 at Jabalpur
3. Dr. M. Juneja delivered a talk on "Early Detection and early Intervention in case of Developmental Delay' during UNICEF Kolkata sponsored advocacy workshop titled 'Multi-Sectorial Approach to Early Childhood Development: from Policy to Practice" on 12th December 2019

Conferences Organized

Dr. M. Mantan organized the Fourth Annual meeting of Pediatric Research and Education Society of India (PRESIDE) on 22, 23rd November 2019 at MAMC, Delhi.

Dr. Aashima Dabas Treasurer cum-co-organizer for Annual Meeting of Pediatric Research Society of India (PRESIDE) held from 22-23 Nov 2020, MAMC, New Delhi

Dr. Puneet K Sahi 4th annual meeting of Pediatric research and education society of India (PRESIDE) organized on 22.11.19 and 23.11.19 by department of Pediatrics of MAMC and AIIMS, New Delhi under Dr S Ramji, Dr U Jhamb, Dr Mukta Mantan and Dr Ramesh Aggarwal

Dr. Puneet K Sahi Co organized Practical Pediatric capsule course (PPCC) workshop from 18.12.19 to 20.12.19 by department of Pediatrics under Dr U Jhamb

Dr. Puneet K Sahi IAP UG Quiz (Pediatric) intradepartmental 2019

Dr. Swarnim Fourth Annual Meeting of Pediatric Research & Education Society of India

Dr. Swarnim PRESIDE) under Dr Mukta Mantan from 22.11.2019 to 23.11.2019

Dr. Swarnim Co organized Practical Pediatric capsule course workshop from 18.12.19 to 20.12.19 by department of Pediatrics under Dr U Jhamb.

Dr. Pallavi Co organized STEP Pedistar workshop on 27.09.2019 in department of Pediatrics under Dr Urmila Jhamb.

Dr. Pallavi Co organized Practical Pediatric capsule course workshop from 18.12.19 to 20.12.19 by department of Pediatrics under Dr U Jhamb

Dr Urmila Jhamb organized CME on Primary immunodeficiencies on 08.08.2019

Dr Urmila Jhamb organized STEP workshop (Simulation Training in Emergency Pediatrics) on 27.09.2019 at MAMC in collaboration with IAP alongwith PCNI (Pediatric conference of North India)

Dr Urmila Jhamb organized PPCC (Practical Pediatrics Capsule Course) in the department of Pediatrics MAMC on 18-20th Dec 2019

PEDIATRICS (UCMS)

Major Activities and Achievements

The Department of Pediatrics at UCMS & GTB Hospital has always stood for setting high standards in medical education and academic excellence. This is amply evident through the achievements of the faculty members and resident students. The department is proud to be lead by Prof. Piyush Gupta, who was also elected as the President of the Indian Academy of Pediatrics (IAP), for 2020. The department has been selected for starting Fellowship Training Program in Pediatric Hematology Oncology under the aegis of National Board of Examinations (NBE) with effect from 2020. All faculty members have attained eminence in their respective fields and almost all of them are credited with several publications in reputed journals and academic achievements. Several faculty members are serving in editorial capacity of reputed journals. The fact that out of four national awards instituted by the IAP every year, three were bagged by students of UCMS in 2020, thereby, exemplifying the commitment of the department to inculcating good research practices amongst its students. The department takes pride to hone the research skills of undergraduate

students; three undergraduate students pursuing MBBS at UCMS received research awards in pediatrics in 2019-2020.

Honours/Distinctions

Faculty

Name of Faculty	Name of Award
Dr. Piyush Gupta	<ol style="list-style-type: none"> 1. Elected as President-elect, Indian Academy of Pediatrics for 2020 2. Chairperson, Nutrition subchapter of Indian Academy of Pediatrics. Pediatrics and Adolescent Nutrition Society (2019-2020) 3. Orations: <ol style="list-style-type: none"> a. Dr D G Gan Oration 2020. Academy of Pediatrics, Nagpur, 23 Feb 2020. b. Dr JR Srivastava Oration. Indian Academy of Pediatrics, Kanpur. 25 January 2020. c. Dr Harischandra Oration. Indian Academy of Pediatrics, Twin City Branch, Hyderabad. 25th Silver Jubilee Annual Conference of Twin Cities Branch of IAP 2019. KIMS, Secunderabad. December 28, 2019 d. Prof JB Mehta Oration. Indian Academy of Pediatrics, Rajasthan. RajPedicon 2019. Jaipur December 1, 2019. e. Dr Tapan Kumar Ghosh Memorial Oration. Zikavirus: The Emerging Threat. Indian Academy of Pediatrics, West Bengal Academy of Pediatrics. Hooghly. December 7, 2019.
Dr. Sunil Gomber	<ol style="list-style-type: none"> 1. NBE Felicitation Award at 20th Convocation and award ceremony of National Board of Examinations held at Dr. Ambedkar International Centre, Janpath, New Delhi on 24th December 2019. 2. DrKhandpur Oration (2019)
Dr. Anju Aggarwal	<ol style="list-style-type: none"> 1. Member of Multidisciplinary board for disability certification, North East Delhi 2. Appointed Zonal Coordinator for 13th Post-graduate Quiz Coordinator (Divisional Round) Indian Academy of Pediatrics. September 2019.
Dr. Dheeraj Shah	Certificate of Appreciation by IAP in view of services rendered as Editor-in-Chief of Indian Pediatrics from 2014-2019
Dr. Purna Batra	Completed International Program on Preterm Nutrition (2019) by University of Western Australia.
Dr. Pooja Dewan	Certificate of Appreciation by IAP in view of services rendered as Associate Editor of Indian Pediatrics from 2014-2019
Dr. Manish Narang	<ol style="list-style-type: none"> 1. NBE Felicitation award at 20th Convocation and award ceremony of National Board of Examinations held at Dr. Ambedkar International Centre, Janpath, New Delhi on 24th December 2019. 2. DMA Excellence Award at Maulana Azad Medical College, New Delhi for year 2019-20. 3. President, UCMS Alumni for year 2020-21 4. Elected as Member Delhi Medical Council 2020
Dr. Aaradhana Singh	1. Indian Society of Pediatric and Adolescent Endocrinology (ISPAE) Observership Award, 2019
Dr. Ravi Sachan	1. Appointed Secretary, National Neonatology Forum, Delhi for 2020.

	<ol style="list-style-type: none"> 2. Conferred Fellowship of National Neonatology Forum of India (FNNF) during NEOCON 2019 at Hyderabad. 3. Awarded for outstanding contribution made in the successful completion of the zonal round of NNF PG Quiz during NEOCON 2019 at Hyderabad
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Publications

1. Aggarwal A. (2019). Measles-Mumps-Rubella Vaccination in Children with Food Allergy. *Indian journal of pediatrics*, 86(10), 883–884. <https://doi.org/10.1007/s12098-019-03050-y>
2. Bedi N, Kumar CM, Gupta P. (2020). 50 Years Ago in The Journal of Pediatrics: Neonatal Septicemia. *Journal of paediatrics*, 216, 135.
3. Bedi N, Gupta P. (2019). 50 Years Ago in The Journal of Pediatrics A unified guide to parenteral fluid therapy. I. Maintenance requirements and repair of dehydration. *Journal of paediatrics*, 210, 54.
4. Bhasin, H., Goyal, M., & Sharma, S. (2020). Advances in the Diagnosis and Management of Tubercular Meningitis in Children. *Indian journal of pediatrics*, 87(1), 26–33.
5. Bhasin, H., & Sharma, S. (2019). The New International League Against Epilepsy (ILAE) 2017 Classification of Seizures and Epilepsy: What Pediatricians Need to Know! *Indian journal of pediatrics*, 86(7), 569–571.
6. Bhargava, R., Singh, A., Aggarwal, A., Narang, M. (2019). Rare association of celiac disease with congenital heart disease. *Indian journal of child health*. 6(5), 255-256
7. Bhowmik, E., Singh, A., Sachan, R.(2020). Profile of adverse events following immunization with measles rubella vaccine at a tertiary care hospital in East Delhi, India. *Therapeutic Advances in Vaccines and Immunotherapy*.8: 1–635. DOI: 10.1177/2515135520940131
8. Dabas, A., Vats, P., Sharma, R., Singh, P., Seth, A., Jain, V., Batra, P., Gupta, N., Kumar, R., Kabra, M., Kapoor, S., & Yadav, S. (2020). Management of Infants with Congenital Adrenal Hyperplasia. *Indian pediatrics*, 57(2), 159–164.
9. Dewan, P., Sesama, M., Gomber, S., & Grover, C. (2020). Tell-tale signs in nails of children with cancer. *Journal of paediatrics and child health*, 10.1111/jpc.14887. Advance online publication.
10. Dewan, P., Gupta, P. (2020). The Silent Spreaders are not so Silent Anymore. *Annals of the national academy of medical sciences*, 00, 1-3.
11. Dewan, P., & Shah, D. (2019). Pertussis: 100-day Disease Over 50 Years!. *Indian pediatrics*, 56(10), 865–867.
12. Dewan, P., Mardi, D, Gomber, S, Saha, R. (2019). A prospective cohort study of enteric pathogens in human immunodeficiency virus-infected Indian children and their relationship with diarrheal occurrence. *International journal of contemporary pediatrics*. 6(6), 2634-2641.
13. Dewan, P., Dixit, A., Gomber, S., Kotru, M., Banerjee, B. D., Tyagi, V., & Malhotra, R. K. (2019). Serum and Urinary Hepcidin for Diagnosing Iron-deficiency Anemia in Under-5 Children. *Journal of pediatric hematology/oncology*, 41(4), e216–e220.

14. Devamare, S., Ihtisham, K., Bhasin, H., Bhasker, V., Sharma, S., & Tripathi, M. (2020). Subacute Sclerosing Panencephalitis Mimicking Anti-NMDA Receptor Encephalitis. *Annals of Indian Academy of Neurology*, 23(3), 411–413.
15. Dhingra B, Gupta P. (2019). 50 Years Ago in The Journal of Pediatrics: Acrodermatitis enteropathica: Defective metabolism of unsaturated fatty acids. *Journal of Pediatrics*. 208,155.
16. Gera T, Shah D, Sachdev HS (2019). Zinc supplementation for promoting growth in children under 5 years of age in low- and middle-income countries: A systematic review. *Indian pediatrics*, 56(5):391-406.
17. Gupta P, Gupta P. (2019). 50 Years Ago in The Journal of Pediatrics: Funduscopy photography and fluorescein angioretinography in evaluation of children with neurologic handicaps. *Journal of paediatrics*, 209, 124.
18. Gupta P, Meena P, Khan AM, Malhotra R, Singh T. (2020). Effect of faculty training on quality of multiple-choice questions. *International Journal of Applied Basic Medical Research*. 10, 210-4.
19. Gupta P, Shah D, Kumar P, Bedi N, Mittal HG, Mishra K, et al (2019); for Pediatric and Adolescent Nutrition Society (Nutrition Chapter) of Indian Academy of Pediatrics. Indian Academy of Pediatrics Guidelines on the Fast and Junk Foods, Sugar Sweetened Beverages, Fruit Juices, and Energy Drinks. *Indian Pediatrics*. 56, 849-863.
20. Harit D. (2019). Continuous vs. Intermittent Insulin Delivery in Children and Adolescents with Type 1 Diabetes Mellitus: Pediatrician's Viewpoint. *Indian pediatrics*, 56(7), 601–602.
21. Jain A, Shah D, Das S, Saha R, Gupta P (2019). Aetiology and outcome of acute diarrhoea in children with severe acute malnutrition: a comparative study. *Public Health Nutrition*, Nov 8:1-6. doi: 10.1017/S1368980019003069. [Epub ahead ofprint]
22. Jain, S., Bhasin, H., Romani, M., Valente, E. M., & Sharma, S. (2019). Atypical Childhood-onset Neuroaxonal Dystrophy in an Indian Girl. *Journal of pediatric neurosciences*, 14(2), 90–93.
23. Kalra S, Gupta P. (2019). 50 Years Ago in The Journal of Pediatrics: Epidemiology of diphtheria- role of cutaneous infection. *Journal of paediatrics*, 209, 51.
24. Kaushik, J.S., Gupta P. (2019). 50 Years Ago in The Journal of Pediatrics: Sensory isolation therapy of autistic children. *Journal of Paediatrics*. 2019; 207:184.
25. Khurana, R., Batra, P., Faridi, M., & Khan, N. (2019). Revisiting ABO incompatibility as a risk factor for significant neonatal hyperbilirubinemia. *Tropical doctor*, 49(3), 201–204. <https://doi.org/10.1177/0049475519838428>
26. Kumar, A., Singh, A., Aggarwal, A. (2019). Profile of acute childhood poisoning at a tertiary care teaching hospital in North India. *Indian journal of child health*. 6(4), 161-164.
27. Kumar P, Gupta P. (2019) Is indigenously prepared ready-to-use therapeutic food effective in severe acute malnutrition. *Indian Pediatrics*. 56(4):277-8.
28. Krishnamurthi S, Gupta P. (2020). 50 Years Ago in The Journal of Pediatrics: Dogma disputed: alternate-day steroid therapy in the nephrotic syndrome of childhood. *Journal of Pediatrics*. 217, 32.

29. Lalitha, A. V., Fassl, B., Gist, R. E., Shah, B. R., Chawla, N., Singh, A., Baranawal, A., Shamarao, S., Vanaki, R., Mahajan, P., Patel, R., Chauhan, V., Batra, P., Saha, A., Galwankar, S., & Soans, S. (2019). 2019 WACEM - Academic College of Emergency Experts Consensus Recommendations on Admission Criteria to Pediatric Intensive Care Unit from the Emergency Departments in India. *Journal of emergencies, trauma, and shock*, 12(2), 155–162.
30. Mahajan R, Gupta P, Singh T. (2019). Massive open online courses. *Indian Pediatrics*. 56, 489-95.
31. Mahajan, S., & Dewan, P. (2020). LIPEMIC SERUM: EYES SEE WHAT THE MIND KNOWS. *Journal of paediatrics and child health*, 56(1), 185–186.
32. Meena, P., & Harit, D. (2019). Effect of Folic Acid Supplementation on Seizure Control in Epileptic Children Receiving Long Term Antiepileptic Therapy: Correspondence. *Indian journal of pediatrics*, 86(6), 563–564.
33. Muktan D, Singh RR, Bhatta NK, Shah D (2019). Neonatal mortality risk assessment using SNAPPE-II score in a neonatal intensive care unit. *BMC Pediatrics*, 19(1):279. doi: 10.1186/s12887-019-1660-y.
34. Narayanan A, Batra P, Faridi MMA, Harit D. (2019). PaO₂/FiO₂ Ratio as Predictor of Mortality in Neonates with Meconium Aspiration Syndrome. *Am J Perinatol*. 36, 609-614.
35. Prabhakar P, Batra P, Verma C, Harit D. (2020). Hyperpigmentation as a cutaneous manifestation of fungal sepsis in neonates: Case series report. *J Neonatal Perinatal Med*. 13, 143-148.
36. Pinnamaneni PK, Gupta P. (2020). 50 Years Ago in The Journal of Pediatrics: Mist Therapy: Rationale and Practice. *Journal of Pediatrics*. 217, 85.
37. Ray R, Dabas A, Shah D, Malhotra RK, Madhu SV, Gupta P (2019). Seasonal variation in serum 25-hydroxy vitamin D and its association with clinical morbidity in healthy infants from Northern India. *Indian Pediatrics*, 6(12):1020-1024.
38. Sachan, R., Thomas, S., Varghese, B., Singh, A. (2019). Encouraging the Use of Mother's Own Milk as First Feed for Preterm and Very Low Birth Weight Neonate Admitted to the Neonatal Intensive Care Unit: A Quality Improvement Initiative. *Journal of clinical neonatology*, 8, 110-5.
39. Sachdeva, A., Jain, P., Gunasekaran, V., Mahay, S. B., Mukherjee, S., Hagerman, R., Shankar, S., Kapoor, S., Kedia, S. N., Indian Academy of Pediatrics Consensus in Diagnosis and Management of Fragile X Syndrome Committee., & Indian Academy of Pediatrics Consensus in Diagnosis and Management of Fragile X Syndrome Committee (2019). Consensus Statement of the Indian Academy of Pediatrics on Diagnosis and Management of Fragile X Syndrome in India. *Indian pediatrics*, 56, 221–228.
40. Sahoo B, Bhasin H, Abrol P, Nagger S. (2019). Juvenile myelomonocytic leukemia in a child with celiac disease. *Indian Journal of Health Sciences and Care*, 6(2), 77-79.
41. Sesama, M., Gomber, S., & Yadav, M. (2020). Cephalic Tetanus Presenting as Ptosis. *Indian pediatrics*, 57(1), 72–73.
42. Shah D (2019). Bidding adieu...for greener pastures! *Indian Pediatrics*, 56(12):999-1000.
43. Shah D, Gupta P (2019). 50 Years Ago in The Journal of Pediatrics: Field Anthropometry Independent of Precise Age. *Journal of Pediatrics*, Sep;212:143. doi:10.1016/j.jpeds.2019.02.025.

44. Sharma N, Negandhi H, Kalra S, Gupta P. (2020) Prophylactic Vitamin D Supplementation Practices for Infants: A Survey of Pediatricians from Delhi. *Indian Pediatrics*. 57, 259-60.
45. Singh T, Gupta P. (2020) Indian Academy of Pediatrics Releases Uniform Learning Objectives for Competency Based Curriculum in Undergraduate Pediatric Education. *Indian Pediatrics*. 57, 182.
46. Srivastava, K., Sehgal, R., Konanki, R., Jain, R., Sharma, S., Mittal, R., Association of Child Neurology (AOCN)-Indian Epilepsy Society (IES) SOLACE Expert Group, Hedge, A., Aggarwal, A., Chattopadhyay, A., Patra, B., Kaushik, J. S., Lingappa, L., Sankhyan, N., Kapoor, P., Singhi, P., Aneja, S., Gulati, S., Kanhere, S., Rajadhyakshya, S., ... Mishra, D. (2019). Association of Child Neurology-Indian Epilepsy Society Consensus Document on Parental Counseling of Children with Epilepsy. *Indian journal of pediatrics*, 86(7), 608–616. <https://doi.org/10.1007/s12098-019-02946-z>
47. Thakre R, Gupta P. (2019). 50 Years Ago in The Journal of Pediatrics: Termination of night feeding in infancy. *Journal of Pediatrics*. 213, 127.
48. Trivedi, M., Faridi, M., Aggarwal, A., Madhu, S. V., & Malhotra, R. K. (2020). Oral Vitamin D Supplementation to Mothers During Lactation-Effect of 25(OH)D Concentration on Exclusively Breastfed Infants at 6 Months of Age: A Randomized Double-Blind Placebo-Controlled Trial. *Breastfeeding medicine: the official journal of the Academy of Breastfeeding Medicine*, 15(4), 237–245. <https://doi.org/10.1089/bfm.2019.0102>
49. Trivedi M, Jain A, Shah D, Gupta P (2019). Rotavirus gastroenteritis associated with encephalopathy, myositis, transaminitis and hypoalbuminemia. *Indian Journal of paediatrics*, 86(7):642-4.
50. Ugra D, Jain K, Gupta P. (2020). 50 Years Ago in The Journal of Pediatrics: Vaccination by the intranasal route. *Journal of paediatrics*. 213, 95.
51. Vats, P., Dabas, A., Jain, V., Seth, A., Yadav, S., Kabra, M., Gupta, N., Singh, P., Sharma, R., Kumar, R., Polipalli, S. K., Batra, P., Thelma, B. K., & Kapoor, S. (2020). Newborn Screening and Diagnosis of Infants with Congenital Adrenal Hyperplasia. *Indian pediatrics*, 57(1), 49–55.
52. Verma, P., Kapoor, S., Kalaivani, M., Vats, P., Yadav, S., Jain, V., Thelma, B. K., & Science and Engineering Research Board – Newborn Screening Initiative Group (SERB-NBS) members (2019). An Optimal Capillary Screen Cut-off of Thyroid Stimulating Hormone for Diagnosing Congenital Hypothyroidism: Data from a Pilot Newborn Screening Program in Delhi. *Indian pediatrics*, 56(4), 281–286.
53. Verma S, Aggarwal A, Singh A, Narang M. (2019) Visual impairments in children with cerebral palsy. *Indian Journal of Child Health*. 6, 499-502.
54. Vashishtha, V. M., & Gupta, P. (2019). 50 Years Ago in TheJournalofPediatrics: Type 3 Poliovirus Vaccines. *The Journal of pediatrics*, 210, 105.
55. Yadav, M., Dewan, P., Jaiswal, P., & Gomber, S. (2019). Transient Hemiparesis: A Rare Complication of Phenytoin Intoxication. *Journal of pediatric neurosciences*, 14(1), 58–59.

Textbooks Edited

1. Mishra D, Shah D (2020). The Art and Science of Writing a Paper. New Delhi: CBS Publishers.
2. Gupta P, Bagga A, Ramji S, Chugh K, Lodha R, Dewan P, Kaushik JS, Shah D (2020). Principles of Pediatric and Neonatal emergencies, 4th Edition, Jaypee Publishers, Delhi.

3. Shah R, Gupta P, Balasubramanian S. (2020). IAP Textbook of Tropical Diseases. New Delhi: Jaypee Brothers.
4. Menon PSN, Gupta A, Nair MKC, Gupta P, Gupta A. (2020). IAP Recent Advances in Pediatrics. Vol 1. New Delhi: Jaypee Brothers.
5. Gupta P. (2019).Textbook of Pediatrics. 2nd Edition. New Delhi: CBS Publishers.
6. Parthasarathy A, Menon PSN, Nair MKC, Gupta P, Kundu R, Gupta A. (2019). IAP Textbook of Pediatrics. 7th edition. New Delhi: Jaypee Brothers.

Journals

No of publications by Pediatrics Department:55 (In Indexed Journals)

No of faculty members servings as Editor(s), Members of Editorial Board:

1. Dr Piyush Gupta: Editorial Advisor, Annals of National Academy of Medical Sciences (2018 till date); Editorial Advisor, Journal of Post Graduate Medicine (2017 till date)
2. Dr. Dheeraj Shah: Editor-in-Chief: Indian Pediatrics (2014-19); Associate Editor, BMC Pediatrics, 2020.
3. Dr. Pooja Dewan: Associate Editor: Indian Pediatrics (2014-Till date)
4. Dr. Manish Narang: *Editor-In-Chief* Journal of Case Reports

Research Projects

Funded Research

1. Dr Manish Narang (PI): Received Grant from Department of Health Research-ICMR, 2019-2021 of Rs 22 lakhs, towards research project entitled “Ultrasound Guided Aspiration Plus Antibiotics Vs Antibiotics in Children with Liver Abscess: A Randomized Controlled Trial”
2. ICMR PG Thesis Grant of Rs 50,000/- awarded to Dr Arun Kumar M (Supervisor: Dr Anju Aggarwal) towards thesis entitled “Viral etiology in acute encephalitis syndrome in children and its clinicodemographic correlation”
3. ICMR PG Thesis Grant of Rs 50,000/-awarded to Dr Ravneet Kaur Saluja (Supervisor: Dr Pooja Dewan) towards thesis entitled “Daily versus depot oral vitamin D3 for treating nutritional rickets”

Seminars Organized

1. Guest lecture by Dr Deepak Agrawal, Professor of Neurosurgery, AIIMS, Delhi, and Diwakar Vaish, on Innovative Ventilation
2. Workshop on Peritoneal Dialysis with hands on training by Dr Abhijeet Saha, Professor, Department of Pediatrics, LHMC and KSCH, New Delhi.

Conferences Organized

1. Dr. Sunil Gomber: Course on Clinical Examination for Postgraduates (*COCEP*), Delhi: 14-16 February 2020

2. Dr. Anju Aggarwal: Organizer/ Chairperson Poster Committee, North Zone Pedicon and PCNI, Delhi:28th-29th October 2019.
3. Dr Dheeraj Shah: Organized 4th Workshop on Research Methodology, Indraprastha Apollo Hospital, New Delhi. (8-10 November, 2019)
4. Dr. Dheeraj Shah: Organized 17th Workshop on Art and Science of Writing a Paper, Indraprastha Apollo Hospital, New Delhi (23-24 September, 2019)
5. Dr. Pooja Dewan: “Workshop on “Benign Hematology”, UCMS, Delhi, organised by PCNI, Indian Academy of Pediatrics (North Zone)” at UCMS & GTB Hospital on 27/09/2019. Funded by Indian Academy of Pediatrics, Delhi Chapter.

5. Seminar/Conference Presentations (National/International)

a. Poster/Paper presentations

International

1. Kashyap B, Gupta N, Dewan P, Hyanki P, Singh NP. Clinico-microbiological profile of gastric aspirates among pediatric pulmonary TB cases from a tertiary care hospital. In International Digestive Diseases Forum (IDDF), Hong Kong, 8-9 June 2019.

National/International MoU signed

MoU signed between Sir Ganga Ram Hospital, Delhi and GTB Hospital, Delhi, for training in BMT of FNB Candidate pursuing Fellowship in Pediatric Hematology Oncology at UCMS & GTB Hospital under aegis of National Board of Examinations.

Extension and Outreach Activities

Dr. Anju Aggarwal: Radio Program on Epilepsy in Childhood at All India Radio 26/8/2019

Faculty Strength: 15

PAEDIATRICS (LHMC)

Publications:

1. Chandra J, Sahi PK, Gupta S, Gupta RA, Seth A, Kumar P, Singh V, et al. Addition of Question on parental Factors to the WHO (Integrated Management of Childhood Illnesses) IMCI-HIV Algorithm Improves the utility of the Algorithm for Diagnosis of HIV Infection in Children. *J tropediatr.* 2019 Feb 1; 65(1):29-38.
2. Chandra J. Treating Iron Deficiency Anemia. *Indian J Pediatr* 2019; 86:1085-86.
3. Samanta A, Chandra J, Kaur R, Anand R, Shukla S, Mandal P. Clinical profile and microbiological spectrum of febrile neutropenic episodes in children with severe aplastic anemia. *J pediatr Hematol oncol* 2019.

4. Rajani BJ, Mondal S, Kumar V, Asha Gandhi. Impact of adjunct treatment with yoga on severity, illness core and drug dosage in controlled asthmatic children. *national Journal of physiology, pharmacy and pharmacology* 2019; 9(11):1139-1144.
5. Rajani BJ, Mondal S, Gandhi A, Kumar V. A quasi-experimental study of the effects of yogic practices on pulmonary functions and exercise-induced liability in children with controlled asthma. *International Journal of Medical Sciences and public Health* 2019; 8(12):1046-1051.
6. Mahajan A, Kumar V, Sindhwani SP, Chhapola V. Clinical Profile and Short Term Outcome of Children with neutropenia. *Indian J pediatr.* 2019; 86: 1017-1020.
7. Viraraghavan VR, Seth A, Aneja S, Singh R, Dhanwal D. effect of high dose vitamin D supplementation on vitamin D nutrition status of pre-pubertal children on anti-epileptic drugs - a randomized controlled trial. *Clinnutr eSpn.* 2019 Feb; 29:36-40.
8. Seth A. optimizing Stature in Congenital Adrenal Hyperplasia: Challenges and Solutions. *Indian J pediatr.* 2019 Jun; 86(6):489-491.
9. Kumar p, Gupta p. Is Indigenously prepared Ready-to-use therapeutic Food effective in Severe Acute Malnutrition? *Indian pediatr.* 2019 Apr 15; 56(4):277-278.
10. Jain R, Kumar p, Kapoor S, Basu S, lomash A, Rohatgi S. Reliability of coeliac serology in monitoring dietary adherence in children with coeliac disease on a gluten-free diet. *trop Doct.* 2019. Jul; 49(3):192-196.
11. Gupta p, Shah D, Kumar P, Bedi N, Mittal HG, Mishra K, et al. Indian Academy of paediatrics Guidelines on the Fast and Junk Foods, Sugar Sweetened Beverages, Fruit Juices, and energy Drinks. *Indian pediatr.* 2019 oct 15; 56 (10):849-863.
12. Kumar p, Sinha R, patil n, Kumar V. Relationship between mid-upper arm circumference and BMI for identifying maternal wasting and severe wasting: a cross-sectional assessment. *public Health nutr.* 2019 oct; 22(14):2548-2552.
13. Mukherjee SB, Devamare S, Seth A, Sapra S. Development, Cognition, Adaptive Function and Maladaptive Behavior in HIV-infected and HIV-exposed uninfected Children Aged 2-9 Years. *Indian pediatr.* 2019 nov 15; 56(11):933-937.
14. Mukherjee SB, Kaushik JS. psychopharmacology for behaviour problems in children. *Indian pediatr* 2019; 56(8):683-84.
15. Mukherjee SB, Aneja S, Sharma S, Sharma M. Diagnostic Accuracy of Indian Scale for Assessment of Autism in Indian Children Aged 2-5 Years. *Indian pediatr.* 2019 oct 15; 56(10):831-836.
16. Bhatnagar S, Kumar R, Dua R, Basu S, Kumar p. outcome of Children with Severe Acute Malnutrition and Diarrhea: a Cohort Study. *pediatr Gastroenterol Hepatol nutr.* 2019. May; 22(3):242-248.
17. Lalitha AV, Fassl B, Gist Re, Saha A *et al.* 2019 WACeM - Academic College of emergency experts Consensus Recommendations on Admission Criteria to paediatric Intensive Care unit from the emergency Departments in India. *J emerg trauma Shock.* 2019 Apr-Jun; 12(2):155-162.
18. Tripathi N, Saha A, Kaur M. Multiple Splenic Infarcts Complicating plasmodium vivax Malaria.. *pediatr emerg Care.* 2019 oct; 35(10):e181-e183.

19. Sinha R, Vasudevan A, Agarwal I, Saha A, *et al.* Congenital nephrotic Syndrome in India in the Current era: A Multicenter Case Series. *nephron.* 2020; 144(1): 21-29. doi: 10.1159/000503303. epub 2019 oct25.
20. Arumugam V, Saha A, Kaur M, Deepthi B, Basakt, Sengupta S, *et al.* Plasma Free Homocysteine Levels in Children with Idiopathic Nephrotic Syndrome. *Indian J nephrol.* 2019 May-Jun;29(3):186-190.
21. Sinha R, Saha A, Samuels J. American Academy of paediatrics Clinical practice Guidelines for Screening and Management of High Blood pressure in Children and Adolescents: What is new? *Indian pediater.* 2019 Apr 15; 56(4):317-321.
22. nathanJ,BailurS, DatayK, SharmaS, KhedekarKaleD. A Switch to polyunsaturated Fatty Acid Based Ketogenic Diet Improves Seizure Control in patients with Drug-resistant epilepsy on the Mixed Fat Ketogenic Diet: A Retrospective open label trial. *Cureus.* 2019 Dec 16; 11(12):e6399.
23. GoswamiJn, SharmaS. Current perspectives on the Role of the Ketogenic Diet in Epilepsy Management. *neuropsychiatr Dis treat.* 2019 nov 25; 15:3273-3285.
24. Bhasin H, Goyal M, Sharma S. Advances in the Diagnosis and Management of tubercular Meningitis in Children. *Indian J pediater.* 2019 Dec 4. [epub ahead ofprint]
25. Srivastava K, Sehgal R, Konanki R, Jain R, Sharma S, Mittal R, *et al.* Association of Child neurology-Indian epilepsy Society Consensus Document on parental Counseling of Children with epilepsy. *Indian J pediater.* 2019 Jul; 86(7):608-616.
26. Bhatip, SharmaS, JainR, RathB, BeriS, GuptaVK, AnejaS. Cerebral palsy in north Indian Children: Clinico-etiological Profile and Comorbidities. *J Pediatr Neurosci.* 2019 Jan-Mar; 14(1): 30-35.
27. Yadav S, Jain p, Sharma S, Kumar V, Aneja S. Guillain-Barre syndrome in north Indian children: Clinical and serial electrophysiological features. *neuro India.* 2019 May-Jun; 67(3):724-727.
28. Dudeja S, Gupta S, Sharma S, Jain A, Sharma S, Jain p, Aneja S, Chandra J. Incidence of vincristine induced neurotoxicity in children with acute lymphoblastic leukemia and its correlation with nutritional deficiencies. *pediatr Hematol oncol.* 2019 Sep; 36(6):344-351.
29. Jain S, Bhasin H, Romani M, Valente eM, Sharma S. Atypical Childhood-onset neuroaxonal Dystrophy in an Indian Girl. *J pediater neurosci.* 2019 Apr-Jun; 14(2):90-93.
30. Sidharth, SharmaS, Jainp, MathurSB, MalhotraRK, KumarV. Status epilepticus in paediatric patients Severity Score (StepSS): A clinical score to predict the outcome of status epilepticus in children- a prospective cohort study. *Seizure.* 2019 oct; 71:328-332.
31. Kaushik JS, Kadwa RA, Sahu JK, Sharma S, Mittal R; Association of Child neurology (AoCn)-Indian epilepsy Society (IeS) SolACe expert Group. Association of Child neurology-Indian epilepsy Society Consensus Document on Social and legal Aspects of Childhood epilepsy (SolACe). *Indian J pediater.* 2019 Jul; 86(7):599-607.
32. Farmania R, Jain p, Sharma S, Aneja S. unusual presentation of pMM2-Congenital Disorder of Glycosylation With Isolated Stroke-like episodes in a Young Girl. *J Child neurol.* 2019 Jun; 34(7):410-414.

33. Kaushik S, Chopra D, Sharma S, Aneja S. Adverse drug reactions of anti-epileptic drugs in children with epilepsy: a cross-sectional study. *Curr Drug Saf.* 2019 Mar10.
34. Bhasin H, Sharma S. The New International League Against Epilepsy (ILAE) 2017 Classification of Seizures and epilepsy: What paediatricians need to Know! *Indian J pediatr.* 2019 Jul; 86(7): 569-571.
35. Jones HF, Ho ACC, Sharma S, Mohammad SS, Kothur K, patel S, Brilot F, Guastella AJ, Dale RC. Immune- neurodevelopment (Imm-nd) Study Group. Maternal thyroid autoimmunity associated with acute- onset neuropsychiatric disorders and global regression in offspring. *Dev Med Child neurol.* 2019 Feb 5. [epub ahead ofprint].
36. JainR,Chandorkarn,RajD,Vohrap,SharmaS.unusualCauseofIntractableVomitinginaYoungGirl.Indian J pediatr. 2019 Apr; 86(4):386.
37. Helman G, Sharma S, Crawford J, patra B, Jain p, Bent SJ, urtizberea JA, Saran RK, taft RJ, van der KnaapMS,SimonsC.leukoencephalopathyduetovariantsinGFPT1-associatedcongenitalmyasthenicsyndrome. *neurology.* 2019 Feb5; 92(6):e587-e593.
38. Aneja S, Sharma S. Diagnosis and Management of Acute encephalitis in Children. *Indian J pediatr.* 2019 Jan; 86(1):70-75.
39. Henry BM, Cheruiyot I, Wong IM, Keet K, Mutua V, Chhapola V, tubbs RS. the bridging bronchus: A comprehensive review of a rare, potentially life-threatening congenital airway anomaly associated with cardiovascular defects. *pediatr pulmonol.* 2019; 54:1895-1904.
40. Moulik nR, Mandal p, Chandra J, Bansal S, Jog p, Sanjay S, Shah n, Arora RS. Immunization of Children with Cancer in India treated with Chemotherapy–Consensus Guideline from the paediatric Hematology-oncology Chapter and the Advisory Committee on Vaccination and Immunization practices of the Indian Academy of paediatrics. *Indian pediatr* 2019; 56:1041-8.
41. Ray S, Chandra J, Sharma S. Clinico-hematological study of abnormalities of platelet counts in children with iron deficiency anemia. *Int J Contemp Pediatr* 2019; 6: 1519-23.
42. Ray S, Seth A, Bajjal n, Singh S, Sharma G, Kumar p, Chandra J. Comparison of Feeding options for HIV- exposed Infants: A Retrospective Cohort Study. *Indian pediatr.* 2019 Jun 15; 56(6):476-480.

Books/Chapters Contributed

1. SethA,Singhp.neonatalcalciumandphosphatedisorders.In:IAptextbookonpaediatricendocrinology.ed Khadilkar V, Bajpai A, prasad HK. pub. Jaypee Brothers Medical publishers, 2019;338-345.
2. Seth A. Mineral metabolism and disorders of the parathyroid gland. In: IAp text book of paediatrics. 7th ed. ed. pSn Menon, MKC nair. Jaypee Brothers Medical publishers, 2019;1021-1028.
3. Singh p, Seth A. tetany. In: nedunchelian K, editor. Differential Diagnosis in paediatrics. new Delhi: Jaypee Brothers Medical publishers;2019.
4. Seth A, Singh p. Adrenal and thyroid emergencies. In: Gupta p. editor. principles of paediatric and neonatal emergencies. 4th ed. new Delhi, India: Jaypee Brothers Medical publishers (p) ltd; 2019;442-454.
5. Mukherjee SB. lumbar puncture. “principles of paediatric and neonatal emergencies”. 4thedition.

6. Basu S. Injuries, Aggression and Violence. In: Adolescent Module. prepared and published by IGnou.2019.
7. Gupta A, Saha A. Resuscitation and emergency Room Drugs. *In*: principles of paediatric & neonatal emergencies. 4nd edition. 2020. eds. Gupta p, Bagga A, Ramji S, lodha R. Jaypee Brothers, New Delhi.

Research Projects

Name of Investigators	Project incharge	Title of the project/ scheme	Name of the Funding agency	Budget in Rs.
Research projects with funding				
Dr. Jagdish Chandra	Dr. Ravinder Kaur	Characterization and anti fungal resistance profile of Candidiasis	ICMR	
Dr. Anju Seth	Dr. Anju Seth	Multicentric Active AeFI Sentinel Surveillance in India	InClen	
Dr. Anju Seth	Dr. nikhil tandon, professor endocrinology, AIIMS	Registry of people with diabetes in India with young age at onset	ICMR	
Dr. Anju Seth	Dr. Varinder Singh	Comparative yield of mycobacterium tuberculosis by molecular diagnostics in individual respiratory specimens versus pooled specimens for diagnosis of pulmonary tuberculosis in children	Delhi State Health Mission RntCp-oR	4.9 lakhs (total budget)
Dr. Virendra Kumar Dr. Anju Seth Dr. Varinder Singh Dr. Harish K. pemde	Dr. Virendra Kumar	Zinc Sepsis study	tHStI, DBt	

Seminars organized: Total: 11

S.No.	Faculty Member	Organiser(s)	Name, Venue & Date
1	Abhijeet Saha (National Coordinator) FACee-peM	Indo-uS emergency & trauma Collaborative	2nd epIcon, MGM, Mumbai, India, 2nd-6th Feb 2019
2	Dr. Suvasini Sharma Course Co ordinator	Deptt of paediatrics	3rd Association of Child neurology Masterclass in paediatric neurology, Metropolitan Hotel, new Delhi, 3rd Feb

S.No.	Faculty Member	Organiser(s)	Name, Venue & Date
			2019
3	Dr. Jagdish Chandra Dr. Virendra Kumar Dr. Praveen Kumar	nCoe-SAM in collaboration with unICeF	Centre of excellence network Meeting for SAM Management, the Visaya, new Delhi, 27th-28th Feb 2019
4	Dr. Praveen Kumar as Convener	Paediatric & Adolescent nutrition Society	National Consultation expert Group Meeting on “Fast food, Fruit juice and energy Drinks in children’s and adolescent”, the Visaya, New Delhi on 11th March 2019
5	Dr. Harish K pemde as Chief Faculty Advisor	IHMC	Medicus Conventus 2019, IHMC, 29th-31st March 2019
6	Dr. Sharmila B. Mukherjee as Co-Chairperson	Department of Community Medicine IHMC & IApSM Delhi Chapter	National workshop on team Building & leadership skills for health professionals, 7th May 2019.
7	Dr. Virendra Kumar Dr. Praveen Kumar as Facilitator	Deptt of paediatrics in collaboration with nHM Bhopal	tot on “Management of <6m & structured play therapy” for Faculty member of Mp, KSCH, 8th-10th May 2019
8	Dr. Virendra Kumar Dr. Praveen Kumar as organisers	Deptt of paediatrics in collaboration with District Health Society, new Delhi	Educational Programme on “Intensified Diarrhea Control Fortnight” for mothers & caregivers, CHpC, KSCH, 6th and 8th June 2019
9	Dr. Virendra Kumar Dr. Anju Seth Dr. Praveen Kumar Dr. Srikanta Basu Dr. Shalu Gupta as Facilitators	Deptt of paediatrics in collaboration with nHM Bhopal	training on “Critical Care & Management of Children with SAM and Structured play therapy” for Mos, Hotel Metropolitan, 29th July-1st Aug 2019
10	Dr. Suvasini Sharma as organizer		VIIth Workshop on Clinical evaluation in paediatric neurology, KSCH, 3rd-4th Aug 2019
11	Dr. Varinder Singh, Chairperson; Dr. Suvasini Sharma as Member Secretary	Research & project Committee, IHMC & KSCH	Workshop on Research Methodology and protocol Writing for 1st year pGresidents, KSCH, 7th-8th Aug2019

Conferences Organized

S.No.	Faculty Member	Organiser(s)	Name, Venue & Date
1	Abhijeet Saha (National Coordinator) FACee-peM	Indo-uS emergency & trauma Collaborative	2nd epIcon, MGM, Mumbai, India, 2nd-6th Feb 2019

S.No.	Faculty Member	Organiser(s)	Name, Venue & Date
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3	Dr. Jagdish Chandra Dr. Virendra Kumar Dr. Praveen Kumar	nCoe-SAM in collaboration with unICEF	Centre of excellence network Meeting for SAM Management, the Visaya, new Delhi, 27th-28th Feb 2019
4	Dr. Praveen Kumar as convener	paediatric & Adolescent nutrition Society	national Consultation expert Group Meeting on “Fast food, Fruit juice and energy Drinks in children’s and adolescent”, the Visaya, new Delhi on 11th March 2019
5	Dr. Harish K Pemde as Chief Faculty Advisor	IHMC	Medicus Conventus 2019, IHMC, 29th-31st March 2019
6	Dr. Sharmila B. Mukherjee as Co-Chairperson	Department of Community Medicine IHMC & IApSM Delhi Chapter	national workshop on team Building & leadership skills for health professionals, 7th May 2019.
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10	Dr. Suvasini Sharma as organizer		VIIth Workshop on Clinical evaluation in paediatric neurology, KSCH, 3rd-4th Aug 2019
11	Dr. Varinder Singh, Chairperson; Dr. Suvasini Sharma as Member Secretary	Research & project Committee, IHMC & KSCH	Workshop on Research Methodology and protocol Writing for 1st year pGresidents, KSCH, 7th-8th Aug2019

Faculty Strength: 29

PAEDIATRIC SURGERY (LHMC)

Major Activities and Achievements

1. Dr. Rohit Kapoor, 3rd year resident, presented paper and won 2nd prize on “Evaluation of outcome of pyeloplasty in poorly functioning kidneys due to u/l puJo,” under supervision of Dr. Rajiv Chadha, in session 44 at AIIMS, IApSCon 2019, new Delhi in november2019.
2. Dr. Archanapuri with Dr. Arun Kumar won best research paper award for: Role of laparoscopy in management of complicated appendicitis in children: a critical appraisal, presented at the Annual Conference of Indian Association of paediatric Surgeons, September 2019 at AIIMS, new Delhi.
3. Started mandatory implementation of WHO safety check list for surgical patients in otandard.
4. Started Continence Care Clinic and paediatric Surgery Solid tumor oncology clinic on alternate Mondays of every month.
5. More than 1100 major surgeries performed annauly and Gross death rate reduced to 3%.
6. Successfully operated on difficult cases like the Hemi-mandibulectomy for mandibular tumor or with reconstruction, chest wall pnet with multiple rib excision & reconstruction, giant cervicofacial teratoma among others.

Publications: Total Number ___ 7

1. Rassiwala M, Yadav pS, Choudhury SR, Khan nA, Shah S, Debnath pR, Chadha R. prediction of gap length by plain radiograph of chest with nasogastric tube in upper esophagus in patients with eA& distal teF. J Indian Assoc pediater Surg 2019; 24:2081-4.
2. Anand R, Chaudhary V, narula MK, Gupta I, Choudhury SR, Jain M. Key imaging appearances of commonly encountered adrenal masses. MAMC J Med Sci. 2019; 5:105-12.
3. Khan NA, Pant N, Gupta A, Anand R, Yadav pS, Chadha R, Roy Choudhury S. Radiologic evaluation of uterovaginal abnormalities in girls with congenital pouch colon. J Indian Assoc pediater Surg 2019; 24:104-8.
4. Puri A, Lal B, Nangia S. A pilot study on neonatal surgical mortality: A multivariable analysis of predictors of mortality in a resource-limited setting. Journal of Indian Association of paediatric Surgeons. 2019 Jan; 24(1): 36-44.
5. Daniel Kp, Puri A, Singh S. Diagnostic accuracy of gene Xpert in abdominal tuberculosis in children undergoing surgery. J Indian Assoc pediater Surg 2019; 24, Suppl S1: 1-89:20.
6. Puri A, Garg V, Sukhaja p, Khairong peter D. Histological abnormalities in Jejunoileal atresia and its clinical implications. J Indian Assoc pediater Surg 2019; 24, Suppl S1: 1-89:33-34.
7. Garg V, Puri A, Sukhaja p, Daniel Kp. Multivariate analysis of time taken to achieve full enteral nutrition in small bowel atresia. J Indian Assoc pediater Surg 2019; 24, Suppl S1: 1-89:35-36.

Journals Published/ Edited

- Subhasis Roy Choudhury. Esophageal atresia & Tracheo-esophageal fistula. In, IAPS Textbook of Paediatric Surgery, 1st edition; Jaypee Medical publishers, 2019.
- Archana Puri. paediatric soft tissue sarcoma. In, IAPs Textbook of Paediatric Surgery, 1st edition; Jaypee Medical publishers, 2019; 646-61.

Seminars Organized: Total

S.No.	Faculty Member	Organiser(s)	Name, Venue & Date
1.	Dr. S. Roy Choudhury	Dr. Rajiv Chadha Dr. Archanapuri Dr. Partap S Yadav Dr. Vikram Khanna Dr. Amit Gupta	DelHIIApS chapter meet, paediatrics seminar room, KSCH, new Delhi, April 2019
2.	Dr. S. Roy Choudhury	Dr. Rajiv Chadha Dr. Archana puri Dr. Partap S Yadav Dr. Vikram Khanna Dr. Amit Gupta	2nd "KSCH laparoscopy training Course" for residents, pediatric Surgery seminar room, KSCH, New Delhi, April 2019

Conferences organized:

S.No.		Role	Organiser	Name, Venue & Date
1	Dr. S. Roy Choudhury	Guest lecture on "esophageal substitution in children"	MAMC	Paediatric Surgery update MAMC, New Delhi, Mar 2019
	Dr. Archana Puri	Guest lectures on "esophageal atresia" & "neuropathic bladder"		
	Dr. Vikram Khanna	Guest lecture on "Cystic neck lesions" & "Abdominal wall defects"		
2	Dr. S. Roy Choudhury	Chaired a Session on paediatric urology Invited faculty lecture on "Fetal malformations"	IApS	IApSCon 2019, AIIMS, New Delhi, nov 2019
	Dr. Rajiv Chadha	Chaired a Session on paediatric Gastro-Surgery paper on evaluation of outcome of pyeloplasty in poorly functioning kidneys due to u/lpuJo		
	Dr. Archana puri	Delivered guest lecture on "Voiding and neurovesical dysfunction in children with anorectal malformations". Attended paediatric urology Workshop at AIIMS new Delhi and chaired sessions on 30th and 31st oct 2019 Paper in Swapna Dutta award presentation on "Comparative outcome analysis of onlaypreputial flap & snodgrafturethroplasty in preservable narrow up hypospadias" Paper on "Modified Snodgrassurethroplasty with substitution glansplasty"		

S.No.		Role	Organiser	Name, Venue & Date
		Supervised short oral presentation on “laparoscopic management of complicated appendicitis in children” Poster presentation on “Significance of urethral ratio in children with puV having recurrent UTIs” e-poster on “Impact of urethral ratio in renal outcome in children with puV”		

Faculty Strength: 6

PAEDIATRICS ARMY HOSPITAL (R&R)

Major Activities and Achievements

Department of Paediatrics runs a state of the art PICU which have been accredited to level III PICU by IAP. They have also celebrated preterm week. Dr Hardeep Kaur and Dr Vandana Negi have received 2nd prize on publication in AFMRC Conference for Study of pain response in neonates during venipuncture with a view to analyse utility of topical anaesthetic agent for alleviating pain. MJAFI;2018-950:06.

Awards and Honours

1. PG Resident (Dr Anupam) received 2nd best oral paper presentation in ISPN Con 2018
2. Nurses got runners up for NNF Quiz 2018
3. 2nd prize on Publication in AFMRC Conference Maj Hardeep Kaur, Col Vandana Negi. Study of pain response in neonates during venipuncture with a view to analyse utility of topical anaesthetic agent for alleviating pain. MJAFI;2018-950:06.

Publications in Journals

1. Dr Kuppuswamy, Dr SN Panda, Dr Vandana Negi . The role of Iron deficiency as a risk factor for febrile seizures. Journal of Medical Science and Clinical Research ;Sep 19(07):86-92.
2. Goswami JN, Sharma S. Current Perspectives On The Role Of The Ketogenic Diet In Epilepsy Management. Neuropsychiatric Dis Treat .2019; 15:3273-3285.
3. Goswami JN. Population-based study of cognitive outcomes in congenital heart defects: Novel Information about a not so uncommon entity. Archives of Disease in Childhood 01/2018; 103(1).
4. Goswami JN, Roy S. ALG-9 Congenital Disorder of Glycosylation: A Patient with Novel Variants and No Dysmorphism. Journal of Pediatric Neurology. 2020
5. Goswami JN, Shuvendu R, Kumar PS. Pediatric dystonic storm: A hospital-based study. Neurology: Clinical Practice 2020.

6. Rana KS, Goswami JN, Sareen D. Acute ischemic stroke following water immersion seizure: a case report. *Turk J Pediatr.* 2019;61(3):453-455.
7. Khera S, Pramanik SK, Patnaik SK. Transcobalamin deficiency: vitamin B12 deficiency with normal serum B12 levels. *BMJ Case Rep.* 2019 Oct 30;12(10). pii: e232319. doi: 10.1136/bcr-2019-232319.
8. Khera S, Pramanik SK, Kalra S, Dwivedi A. Type B lactic acidosis due to Warburg effect in a child presenting with T cell acute lymphoblastic leukaemia: a milder phenotype. *BMJ Case Rep.* 2020 Mar 17;13(3). pii: e233941. doi: 10.1136/bcr-2019-233941.
9. Ahuja, Ankur & Chatterjee, Tathagata & Venkatesh, S & Singh, Kanwaljeet & Khera Sanjeev & Blessy,. (2020). Chediak Higashi-Incidental Detection 2. *ASH Images* (2020)
10. Khera S., Pramanik, S.K., Yanamandra, U. et al. Dapsone: An Old but Effective Therapy in Pediatric Refractory Immune Thrombocytopenia. *Indian J Hematol Blood Transfus* (2020). <https://doi.org/10.1007/s12288-020-01286-9> (Original article)
11. Khera S, Kapoor, R, Pramanik, SK. Solitary serum methotrexate level 36 hours post high dose methotrexate: A safe, efficacious and cost-effective strategy to monitor methotrexate toxicities in childhood leukemia in resource-limited centers. *Pediatr Blood Cancer.* 2020;e28387. <https://doi.org/10.1002/pbc.28387> (Original article)
12. Khera S, Pramanik SK, Patnaik SK. A Novel Mutation in G6PC3 Gene Associated Non-syndromic Severe Congenital Neutropenia. *Indian Pediatr.* 2020;57(6):574-575.
13. Kalra, S., Dey, S.K., Shankar, R. et al. Antibiotic Prophylaxis for VCU: A Cross-Sectional Observational Study. *Indian J Pediatr* 87, 238 (2020).
14. Bajracharya P, Kalra S, Dhingra S, Sood A, Yadav AK, Kanitkar M. Acute kidney injury in the pediatric intensive care unit at a tertiary care hospital of the Armed Forces: a cross-sectional observational study. *Med J Armed Forces India.* 2020 Jan;76(1):84-88.
15. Mritunjay Kumar, Suprita Kalra, Amit Sood, Ragini Singh, Madhuri Kanitkar. Causes, management practices, and outcomes of pediatric acute kidney injury: A cross-sectional survey. *J Mar Med Soc* 2019;21:51-4.
16. Saxena A, Kalra S, Shaw SC, Venkatnarayan K, Sood A, Tewari VV, Gupta R. Correction of hypernatremic dehydration in neonates with supervised breast-feeding: A cross-sectional observational study. *Med J Armed Forces India.* 2020 Oct;76(4):438-442.
17. Jain G, Kalra S, Vasnik G, Bhandari S. Primary Sjogren's syndrome manifesting with distal renal tubular acidosis and severe metabolic bone disease. *BMJ Case Rep.* 2020 Jun 1;13 (6):e234929.
18. Punam Barjacharya, Jyoti Sharma, Jyoti Singhal, and Suprita Kalra. Takayasu Aortoarteritis in Children: A Diagnostic and Management Challenge. *Indian J Nephrol.* 2019 Sep-Oct; 29(5): 371–372.
19. Ranjan M, Kalra S, Gupta A, Dwivedi A. Stumped by Potassium- A rare case of Familial Pseudohyperkalemia. *Indian Pediatrics.* 2020;57: 472-473.
20. Khera S, Pramanik S K, Kalra S, Dwivedi A. Type B lactic acidosis due to Warburg effect in a child presenting with T cell acute lymphoblastic leukaemia: a milder phenotype. *BMJ Case Rep* 2020;13:e233941. doi:10.1136/bcr-2019-233941.

Other inter institutional collaborations

1. MOU with Amity University- IHBAS for conduct of practical training of MPhil and PhD in Clinical psychology

Extension and outreach activities

1. Technical supervisory role in ASHA Kiran inclusive schooling project, DAPS I

PHARMACOLOGY (MAMC)

Major activities and achievements

The Department of Pharmacology aims to provide a holistic, educational experience for MBBS, BDS and post graduate students in Pharmacology. Towards which the teaching learning activities are being continuously monitored and improved upon. The Department is focused on promotion of rational use of medicines in Delhi Government Health Facilities. The Department is a recognized Adverse Drug Reaction monitoring center for the National Pharmacovigilance Programme of Government of India. To that end to increase awareness about pharmacovigilance and patient safety among doctors, nurses and pharmacists two workshops were organized by the Department. Research based on scientific and ethical principals is promoted. There is a fully functional Animal House approved by CPCSEA.

Honors & Distinctions:

Dr. Vandana Roy

Invited as Chief Guest, CME for Medical Officers sponsored by Rashtriya Ayurveda Vidyapeeth, Ministry of AYUSH, All India Institute of Ayurveda, New Delhi, on October 14th, 2019.

Dean Faculty of Medical Sciences, University of Delhi

Dr Shalini Chawla

Felicitated at 20th convocation of National Board of Examinations on 24th December, 2019 for contribution as a faculty.

Dr Bhupinder Singh

Completed GCP web based training course on 25th June 2019 from Ashford and St. Peter's hospital (NHS).

Dr Vandana Tayal

Completed GCP web based training course on 25th June 2019 from Ashford and St. Peter's hospital (NHS).

Publications

Tayal H, Roy.V, Singhal.S, Dubey A.P. (2020), Pediatric prescribing in a tertiary care teaching hospital of Delhi(India): fragmenting medicines for use. European Journal of Pediatrics March 2020 online. 179:1435-43;2020. Doi<https://doi.org/10-1007/s00431-020-03633-4>

Roy.V, Singhal S, Tayal H. (2020) Availability of pediatric formulations in public health care system in India. Ind Pediatrics. DOI: 10:1007/s12098-020-03220-3

- Roy V. (2019) Integrating indigenous systems of medicines in the healthcare system in India. Need and Way Forward. In Herbal medicine in India: Indigenous knowledge, practice, innovation and its value. Editors: Saikat Sen, Raja Chakraborty. Singapore, Springer Nature. <https://doi.org/10.1007>. Pages 978-981
- Singhal S, Roy V. (2019), The economics of adverse drug reactions. *Journal of Rational Pharmacotherapeutics*, 5(1); 3-8.
- Dutta S, Chawla S, Srivastava S, Loomba O, Roy V.(2019) Prevalence of impaired renal function in patients of liver cirrhosis with or without spontaneous bacterial peritonitis. *Journal of Drug Delivery & Therapeutics*. 9; 286-9
- Batta A, Jain P, Kalra BS.(2019), Prescription audit and drug utilization pattern in outpatients of psychiatry department of tertiary care teaching hospital: an observational study. *International Journal of Basic & Clinical Pharmacology* ,8(2),222-26
- Batta A, Kalra BS, Khirasaria R.(2019), Critical Issues and Recent Advances in Anticoagulant Therapy: A Review. *Neurology India*, 67,1200-12
- Batta A, Kalra BS, Khirasaria R.(2020). Trends in FDA drug approvals over last 2 decades: An observational study. *Journal of Family Medicine & Primary Care* ,9,105-14
- Batta A, Madan N, Kalra BS, Arora S.(2019). Prescription Audit, Drug Utilization Pattern and Adverse Drug Reaction Monitoring in Outpatients of Orthopedics Department of Tertiary Care Teaching Hospital: A Pilot Study. *MAMC J Med Sci* ,5,77-82
- Chawla S, Tiwari A, Syed SN.(2019). Application of a new “Pharmavigil©” app for the analysis of dermatological adverse drug reactions in a tertiary care hospital. *Journal of Pharmacology and Pharmacotherapeutics*,10,69-74
- Chawla S, Tiwari RP, Kumar A, Khanna T, Singh NP (2019). Factors affecting Non-adherence and impact of patient education in poorly controlled type 2 diabetes patients on high dose insulin therapy. *Journal Indian Academy of Clinical Medicine*, 20(1),29-34
- Dutta S, Banerjee S, Kumar S, Jain A.(2019). Reverse Pharmacology: A science redefining drug discovery. *European Journal of Biomedical Pharmaceutical Science*, 6(3),245-9.
- Jain A, Haque I, Tayal V, Roy V. (2019). Valproic acid-induced acute pancreatitis. *Indian Journal of Psychiatry*,61,421-2.
- Jain A, Kalra BS, Srivastava S, Chawla S. (2019).Effect of sofosbuvir and daclatasvir on lipid profile, glycemic control and quality of life index in chronic hepatitis C, genotype 3 patients, *Indian Journal of Gastroenterology*, 38(1),39-4
- Kalra BS.(2019). Supplemental Antioxidants: A Hype in Disease Prevention. *Journal of Association of Physicians of India*, 67,66-68
- Khanna S, Bala S, Singh Y, Sharma T, Kalra J, Dhasmana D, Kohli S.(2019). Comparative evaluation of levetiracetam and valproic acid as monotherapy on cognitive impairment in patients of epilepsy. *International Journal of Basic & Clinical Pharmacology*, 8(4):674-680
- Singhal S, Chawla S.(2019). Effects of whatsapp and facebook on academic, professional and social lives of medical students and resident doctors of north India. *International Journal of Community Medicine & Public Health*,6,3570-7

Verma N, Tayal V, Roy V. (2019). Proton Pump Inhibitors: Prescribing Practices, Appropriateness of Use, and Cost Incurred in a Tertiary Care, Public, Teaching Hospital in New Delhi, India. MAMC Journal of Medical Science;5:113-20.

Number of Department teachers serving as Editor(s)/ Member(s) of Editorial board - 2

Research projects

1. Ongoing Projects

Name of Research Project	Investigators	Year	Funding Agency
To evaluate co morbid depression in newly diagnosed patients with tuberculosis in the DOTS clinic of LN Hospital.	Dr. Vandana Roy, Dr. Proteesh Rana, Dr. Seema Kapoor, Dr. Ashwini Khanna	2017 onwards	Delhi State TB Association
Evaluation of selected biomarkers for depression in patients with type -2 diabetes	Dr. Vandana Roy, Dr. Proteesh Rana, Dr. Mina Chandra, Dr. Seema Kapoor	2018 onwards	-
Ameliorative effect of thymoquinone against colistin induced renal injury	Dr. Vandana Roy, Dr Sahil Kumar, Dr. Nita Khurana,Dr. Akhilesh Mishra	2018 onwards	Maulana Azad Medical College, research grant
To study neuroprotective effect of Zingiber officinale (Ginger) in Aluminium Chloride induced Alzheimer's disease in rat model	Dr. Vandana Roy, Dr. Vandana Tayal, Dr. Akhilesh Mishra, Dr. Nita Khurana, Dr. Binita Goswami	2018 onwards	Maulana Azad Medical College, research grant
To evaluate the protective effect of Azairachta indica leaf extract on chemically induced colon cancer in rats.	Dr. Vandana Roy, Dr. Nita Khurana, Dr. Akhilesh Mishra	2019	Maulana Azad Medical college,
Antinociceptive and antiinflammatory activities of Serratiopeptidase, Boswellia serrata and diclofenac in rats	Dr. Bhupinder Singh, Dr. Vandana Roy	2017 onwards	Drugs supplied by Company
Efficacy of Withania somnifera (Ashwagandha) and Bacopa monnieri (Brahmi) extracts on alcohol withdrawal syndrome in rats.	Dr. Bhupinder Singh, Mr. Pushpit, Dr Akhilesh Mishra	Completed	Drugs supplied by Company
An observational study to assess Availability, Rationality and Cost of fixed dose combination formulations of Analgesics	Dr Bhupinder Singh, Mr Naman Pahwa, Dr Angelika Batta	2018 onwards	-

marketed in India			
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Conferences organized

The Department organized-

2nd CNE and workshop on “Pharmacovigilance for our safety” for Nurses working in associated hospitals of MAMC held on 12th December 2019, Dept of Pharmacology, MAMC.

8th CME and workshop on Pharmacovigilance for patient safety held on 7th February 2020, Dept of Pharmacology, MAMC.

Dr. Vandana Roy Chaired & Coordinated the cultural festival “ MAMC SPIC MACAY Virasat 2019. This was organized in collaboration with Society for Promotion of Indian Classical Music, Art & Culture Amongst Youth. Week long festival was held from 2nd April to 7th April 2019

5th CME Workshop on “Improving Availability & Rational Use of Medicines in Public Health Facilities in Delhi ” was scheduled from March 24th -27th, 2020. The workshop had to be postponed at last minute due to COVID 19 pandemic.

Placement Details

(Number and percentage of students placed) – 1 out of 2 MD candidates joined Academic Institute and the 2nd joined Pharmaceutical Industry, 100% placement.

Extension and Outreach Activities

The Department has prepared a program to sensitize & train all nurses working in hospitals attached to the college in pharmacovigilance.

Number of permanent faculty: Six (6)

PHARMACOLOGY (LHMC)

Major Activities and Achievements

Dr. H.S. Rehan

- A Member of various committees to review the projects/new drug proposals at CDSCO, Ministry of Health & F.W., CCRUM (AYUSH) and ICMR, supervisor in Pharmacovigilance Programme of India, National Tuberculosis Control Programme and AEFI.
- Expert in the Selection of Assistant/Associate Professors at JIPMER, Pondicherry, Dr. RML PGIMER New Delhi, Baba Sahib Ambedkar Medical College and hospital, Rohini, Delhi, Dr. RML Hospital, New Delhi and LHMC, New Delhi.
- External Scientist Member and or CPCSEA under the aegis of Min of Environment & Forest appointed CPCSEA Nominee (Expert) to supervise & inspect the Animal House Facilities and supervised research involving small animal use for VPCI, Patel Chest, University of Delhi, Shriram Institute for Industrial Research, University Road, Delhi, SMS & R, G Noida, National Institute of Malaria Research and SSM & R, SSG & R Greater Noida.

- d. Appointed as a Member of committee on National List of essential Medicines.
- e. Appointed as a Member of Committee under the aegis of ICMR to evaluate the pricing of cardiac stents.
- f. Appointed as Member, of “Central Insecticide Board and Registration Committee”, “Committee for minimal
- g. Change and Committee for developing guidelines for the use of biopesticides, in Ministry of Agriculture and
- h. Farmers Welfare.
- i. Elected as Treasurer of Indian Society for Rational Pharmaco-therapeutics.
- j. Chairperson of Institutional Animal Ethics Committee, LHMC.
- k. Dr. Lalit Kumar Gupta
- l. Acted as Expert in the Selection of Assistant/Associate Professors/Professors at ESIC, Faridabad and ESIC
- m. Dental College Delhi.
- n. Member of Board of studies (pharmacology) at JNMC, Aligarh Muslim University.
- o. Subject expert committees of CDSCO New Delhi.
- p. DSMB member for a study at UCMS, New Delhi and at AIIMS, New Delhi.
- q. Member of Sub-committee for monitoring of adverse events in clinical trials at AIIMS, New Delhi.
- r. Member of Subject Review Committee of National Formulary of India (NFI) published by Indian Pharmacopoeia Commission.
- s. Member of Technical Evaluation Committee (TEC) of the Department of Health Research (DHR), Ministry of Health and Family Welfare

Publications:

1. Solanki B, P rakash A, Rehan HS, Gupta LK. Effect of inhaled corticosteroids on serum periostin levels in adult patients with mild-moderate asthma. *Allergy Asthma Proc.* 2019; 40: 32-34.
2. Kapur A, Rehan HS, Gupta LK, Yadav M. Pattern of anti-diabetic drugs prescribed for type 2 diabetes mellitus patients in a tertiary care hospital of India: an observational study. *Int J Basic Clin Pharmacol* 2019; 8: 1657-1661.
3. Kapur A, Rehan HS. Drug Reaction with Eosinophilia and Systemic Symptoms Syndrome associated with Ethambutol use: A Case Report. *Curr Drug Saf.* 2019; 14; 249-251.
4. Yuwnate AH, Chandane RD, Sah RK, Ghadlinge MS, Suranagi UD. Efficacy and cost-effective analysis of benzyl benzoate, permethrin, and ivermectin in the treatment of scabies and azithromycin versus doxycycline in the 5-treatment of acne vulgaris. *Natl J Physiol Pharm Pharmacol.* 2019; 9(10): 977-982.
5. Gupta LK. Ethical principles applicable to animal research. In *Ethics in Clinical Research*, Edited by Munjal YP, Prakash A, Pangtey GS, Publisher: Evangel, 2019; Pages 53-63.

Conferences organized

S. No.	Faculty Member	Organizer(s)	Name, Venue & Date
1	Dr. H S Rehan, Dr. Sarita Beri, Dr. Piyush Kumar R. Ramavat (Ophthalmology)	Department of Pharmacology, LHMC	Integrated (vertical) Teaching: Glaucoma Management, Department of Pharmacology, LHMC, 2019
2	Dr. H S Rehan, Dr. Anupam Prakash (Internal Medicine)	Organized by the Department of Pharmacology, LHMC	Integrated (vertical) Teaching: Hypertension Management, Department of Pharmacology, LHMC, 2019

Faculty Strength: 10

Other Significant Information

RT PCR was procured as one of the equipment to establish pharmacogenomic laboratory.

Proactive Pharmacovigilance was done by the Pharmacology Department to ensure safe use of drugs. Minor and Serious Adverse Effects (SAE) were recorded. Feedback of their analysis was given to the respective Departments.

PHARMACOLOGY (VPCI)

Major Activities and Achievements

The Department of Pharmacology is involved in teaching and research of postgraduate (MD)/doctoral (PhD) students of Pharmacology, VPCI, University of Delhi. We are involved in the teaching of theoretical and practical pharmacology and toxicology, as well as basic and applied clinical pharmacology. In research, we pursue various research projects, which are aimed at validating the use of traditional system of medicine (Yoga, Ayurveda and Unani) in chronic inflammatory diseases viz. bronchial asthma and COPD by following the modern methodology accepted worldwide. We are having several extramurally funded research projects in the areas of Respiratory pharmacology and toxicology.

Honours/Distinctions at National/International level

1. Member, Advisory Group on WHO "Fair Medicine Pricing Forum".
2. Member of Technical Advisory Group and Core working Group constituted by Ministry of health & Family Welfare, GOI on AMR to oversee and coordinate policy decisions and activities relating to AMR including development and operationalizing the National Action Plan on AMR.
3. Member of Advisory panel of Journal of Pharmaceutical Policy and Practice
4. Winner of scholarship awarded by ISIUM (International Society to Improve use of Medicines) to participate in meeting at Bangkok, 26-28 January 2020
5. Member of the Institutional Ethics Committee – clinical studies at Indraprastha Apollo Hospital, New Delhi, March 2020
Coordinator: Adverse Drug Reaction Monitoring Centre (AMC) under the

Pharmacovigilance Programme of India, Indian Pharmacopoeia Commission (IPC-CDSCO) (2017 – ongoing)

6. Nodal Officer, Multidisciplinary Research Unit of Department of Health Research, ICMR at VPCI. From 21.05.2019-continued)
7. Member Expert (Pharmacology) in IHEC of PGIMER, RML Hospital
8. Expert in Project Evaluation Committee of Indian Council of Medical Research (ICMR), 2019-continued
9. Member Expert (Pharmacology), IHEC of Dr. B.R. Ambedkar Center for Biomedical Research (ACBR), 7.9.2018
10. Guest Faculty during Joint 6th Meeting of European Section and 7th Meeting of North American Section of the International Academy of Cardiovascular Sciences (IACS)" at Serbia from Sept. 11th -14th, 2019

Publications

1. Kotwani A, Gandra S. Potential pharmacological agents for COVID-19. *Indian Journal of Public Health* 2020; 64: S112-116.
2. Rintoul A, Colbert A, Garner S, Kotwani A, Vogler S, Bouvy J, Hill A. Medicines with one seller and many buyers: strategies to increase the power of the payer. *BMJ* 2020;369: m1705
3. Porter G, Joshi J, Bhullar L, Kotwani A. Using ‘smart regulation’ to tackle antimicrobial resistance in low-income and middle-income countries. *BMJ Global Health* 2020;5:e001864, doi 10.1136/bmjgh-2019-001864
4. Gandra S, Kotwani A. Need to improve availability of “Access” group antibiotics and reduce the use of “Watch” group antibiotics in India. *Journal of Pharmaceutical Policy and Practice* 2019; 12: 20.
5. Laxmi V, Gupta R, Bhattacharya SK, Ray A, Gulati K. Inhibitory effects of sildenafil and tadalafil on inflammation, oxidative stress and nitrosative stress in animal model of bronchial asthma. *Pharmacol. Rep.* 73: 517-521, 2019.
6. Gulati K, Reshi MR, Rehman RU, Akhtar J, Ray A. Hepatoprotective Effects of Dawa-UI-Kurkum, a Unani Polyherbal Preparation and the Possible Mechanisms in Experimental Model of D-Galactosamine Induced Liver Damage in Rats. *EC PharmacolToxicol* 7.10: 948-960, 2019
7. Gulati K, Ray A. The evolving role of nitric oxide (NO) in cardiovascular diseases and beyond. *CV Network* 19(2): 11-14, 2020
8. Gulati K, Thokchom SK, Ray A. Impact of chemical warfare agents on immune system. In: Gupta RC (ed). *Handbook of Toxicology of Chemical Warfare Agents*, Third Edition. San Diego: Elsevier Inc./Academic Press, 2020: 685-704.

Research Projects

1. Dr.. Anita Kotwani: Principal Investigator. “Smart Regulation for antibiotic use in India: understanding, innovating and improving compliance”, Multi-disciplinary project under Indo-UK collaboration for ‘Antimicrobial Resistance in India’, funded by Department of Biotechnology, September 2018-September 2021. Total budget for the project: 136.988 lakhs

2. Dr. Kavita Gulati: Principal Investigator “Experimental studies on the hepatoprotective and immune modulatory effects of Dawa-UI-Kurkum, a polyherbal Unani preparation, and its cellular and molecular mechanisms, in rats (CCRUM, 2017-Ongoing, 60 lakhs)”
3. Dr. Kavita Gulati: Principal Investigator “A clinical study to evaluate the effects of yogic intervention on pulmonary functions, inflammatory markers, oxidative stress and health status in patients of Chronic Obstructive Pulmonary Disease (COPD)” (AYUSH, March 2018-Ongoing, 39.77 lakhs)
4. Dr. Kavita Gulati: Mentor: Pharmacological studies to evaluate the anti-inflammatory and immunomodulatory effects of *Aervalanata Linn.* in experimental models of Bronchial asthma and their cellular and molecular mechanism (ICMR, 2019- Ongoing, 14 lakh)
5. Dr. Kavita Gulati: Mentor: “Pharmacological studies to evaluate the anti-inflammatory and immunomodulatory effects of *Hibiscus rosa-sinensis* and *Piper nigrum* and their cellular and molecular mechanism of action in experimental models of Bronchial asthma” (ICMR, 2019- Ongoing, 14 lakhs)

Seminar/Conference Presentations (National / International)

- Dr. Anita Kotwani: Invited speaker and panelist, “Optimizing use of antimicrobial medicines: Essential for containment of antimicrobial resistance”, Global Consultations on Medicines Related Issues and Universal Health Coverage, at Giri Institute of Development Studies, Lucknow (INDIA), Sector O, Aliganj, Lucknow-226024 INDIA, February 3, 2020
- Dr. Anita Kotwani: Invited speaker and Chair of the session, “Access versus excess situation of “Access” and “Watch” group of antimicrobials in India”, International Society to Improve the Use of Medicines, Bangkok, January 26-28,2020
- Dr. Anita Kotwani : Invited as an expert to participate in roundtable discussion on, Reducing environmental risks from antibiotics Expert group meeting May 13, 2019 Embassy of Sweden, 4-5, Nyaya Marg, Chanakyapuri.
- Dr. Kavita Gulati delivered a Guest Lecture entitled “Translational approach to abate theophylline induced cardiotoxicity” at International Conference of Cardiovascular Sciences -2020 (ICCS-2020) at Delhi Pharmaceutical Sciences and Research University, Feb. 21-23, 2020
- Dr. Kavita Gulati delivered a Guest Lecture entitled “Experimental studies on the cellular and molecular mechanisms of UNIM-352, a polyherbal Unani preparation, to validate its use as a drug for bronchial asthma during International Conference on Unani Medicine, Vigyanbhawan, Delhi, 11th & 12th February 2020
- Dr. Kavita Gulati delivered a Guest Lecture entitled “Developing new strategies for the treatment of bronchial asthma by interactions of traditional and modern medicine” at 7th International Congress of Society for Ethnopharmacology, SFEC 2020, February 15-17, 2020, pg157-158
- Dr. Kavita Gulati delivered a Guest Lecture entitled “Complementary roles of traditional and modern medicine in obstructive airway disease: an integrated approach” at 5th IUPHAR World Conference on the Pharmacology of Natural Products & 51st Annual Conference of Indian Pharmacological Society (IPS), Hyderabad, 4th - 7th December, 2019
- Dr. Kavita Gulati delivered a Guest Lecture Title entitled “Role of No in the adaptogenic effects of *Withaniasomnifera* at Symposium on Advances in Nitric Oxide Research, 28 November, 2019, at 2 PM, at DPSRU, New Delhi.

- Dr. Kavita Gulati was a Resource person for Workshop-cum-Awareness Programme on Medication errors and delivered a talk entitled "Pharmacovigilance: A tool to ensure drug safety" at HIMSR on 21 November, 2019
- Dr. Kavita Gulati conducted a Nurses awareness program on Pharmacovigilance, 21 November, 2019, at VPCI
- Dr. Kavita Gulati: Participated in a workshop on Research methodology and Research paper writing Techniques for MRUs and MRHRUs organized by ICMR, Dharamshala, 5-6, Sept., 2019

National and International MoUs Signed

National: CCRUM collaborative project

Placement Details (Number and percentage of students placed)

All students who completed MD and PhD last year are placed in National or International universities for Postdoctoral Fellowship or in pharmaceutical industry.

Number of MD/Ph.D. Degree Awarded

PhD Awarded (2019-2020):

1. Mr. Maaznaqvi

Faculty Strength

3 (2 Professors and 1 Assistant Professor)

Other Significant Information

The MRU was visited by Dr. Pawan Sharma and Mr. Mukesh Bhushan, Deputy Director, from National Productivity Council (NPC) for assessing MRU-VPCI activities on 20.11.19. They appreciated the research work going on in the MRU. There was also a visit by a team from DHR which included Sh. Vinod Kumar, Deputy Director, DHR, Dr. TanuAnanad, Dr. Anshu Grover, Mr. Gambhir for review of MRU-VPCI activities on 13.12.2019.

PHYSIOLOGY (LHMC)

Major Activities and Achievements:

The department is involved in teaching activities of MBBS, MD, Nursing & PTT students. In addition, the department is also involved in patient care and various research programs which includes recording of neurophysiological tests including P300, Nerve Conduction, Cognitive Functions, Pulmonary Function Tests and Heart Rate Variability. The studies involved the patients of Attention Deficit Hyperactivity Disorders (ADHD), Parkinsonism, Schizophrenia, Chronic Obstructive Pulmonary Disease (COPD) Diabetes Mellitus Type-2 and Rheumatoid Arthritis, Asthma and Hypothyroidism.

The Department of Physiology has successfully organized the 5th Intercollegiate Undergraduate Physiology Quiz Competition in November 2019, in which fifteen Medical Colleges have participated from Delhi NCR region.

The Department in collaboration with the Yoga & Lifestyle intervention Centre has successfully organized & celebrated International Yoga Day on 21st June 2019.

A number of patients, medical students, doctors & nursing staff are being benefited by attending the yoga practices in the Yoga & Lifestyle intervention Centre of the department.

Publications

Bhardwaj S, SunitaM, Bandhu R, Debnath EM, Chaudhury D (2020). Effect of Glycated Haemoglobin Levels on Cognitive Functions. International Journal of Medical Science and Current Research (IJMSCR), ;3(1) : 388-393

D. Santhanalakshmi , Sujata Gautam, Asha Gandhi , DebasishChaudhury , BinitaGoswami and SunitaMondal (2019). Heart Rate Variability (HRV) in Prediabetics – A Cross Sectional Comparative Study in North India. Indian J PhysiolPharmacol; 63(4) : 275–282

Jasrotia RB, Mondal S, Gandhi A, Kumar V (2019). A quasi-experimental study of the effects of yogic practices on pulmonary functions and exercise-induced bronchial lability in children with controlled asthma. Int J Med Sci Public Health;8(12):1046-1051.

Jasrotia RB, Mondal S, Kumar V, Gandhi A (2019). Impact of adjunct treatment with yoga on severity, illness score, and drug dosage in controlled asthmatic children. Natl J Physiol Pharm Pharmacol;9(11):1139-1144.

Rahul, Verma NS, Agarwal M*, Vishwakarma P, Kanchan A, Kumar P. Heart rate recovery in normal and obese males with and without parental history of cardiovascular disease. J Family Med Prim Care 2020; 9(5):2379-83.

Journals:

- Number of Departmental Teachers Serving as Editors, member of Editorial Board:
 - Reviewer “Indian Journal of Physiology & Pharmacology”.
 - Dr SunitaMondal:
 - Dr Rajiv Bandhu:
 - Dr Sujata Gautam:
 - Dr Anita Pawar:
 - Dr Madhulika Monga:
 - Dr Rajiv Bandhu: Advisory board member of international journal of physiology.
 - Dr Gaurav Swami: “Member of editorial board Journal of Clinical Diagnosis and Research”.

Seminar Organized: Total No: 5

S.No.	Faculty Member	Organiser(s)	Name, Venue and Date
1.	Dr Rajiv Bandhu Dr Sandeep Singh Dr NeerajVerma	Deptt of Physiology Organizing secretary: Dr T Krishna Kishore Dr Shweta	5 th International Yoga Day celebration in Lady Hardinge Medical College, New Delhi on 21 st June 2019.

S.No.	Faculty Member	Organiser(s)	Name, Venue and Date
2.	Dr Sunita Mondal Dr Sujata Gautam Dr Anita Pawar Dr.Madhulika Monga Dr Mary Vibha Lakra Dr Shweta	Organizing Secretary: Dr.Madhulika Monga	Launch of “ Student Mentorship Programme” for MBBS Batch 2018-19 on 30th August, 2019.
3.	Dr Gaurav Swami	Member of Organizing Committee	CME on ORS, Mera Asptaal & e-hospital MEU Hall S.J.Auditorium LHMC New Delhi on 15th November 2019.
4.	All Faculty Members & Residents	Organizing Chairperson: Dr.Sunita Mondal Organizing Secretary: Dr. Anita Pawar Dr.Madhulika Monga	“Fifth Intercollegiate Undergraduate Physiology Quiz competition” at S. J. Auditorium, LHMC , on 20 th November 2019.
5.	Dr.Madhulika Monga Dr Anita Pawar	Organiser and Quiz Master	‘AtheroQ’ a multi–subject quiz on atherosclerosis, held during ISARCON 2019 at Deptt of Biochemistry, LHMC, N Delhi.
	Dr Pankaj K Keshri	Member of Organizing Committee	

Faculty Strength: 13

Other Significant Information:

- First prize for Oral paper presentation was won by Ms Shristi Gupta 4th semester MBBS student, Pulsating Mind 2019 at AIIMS, New Delhi .Presenting the work done under STS 2018. Authors :Gupta S, Monga M, Mondal S.Titled: “The effect of previous day smartphone usage on sleep and autonomic function: Mobile Application based study”.
- Second Prize for Poster Presentation was won by Dr Ankita Lahkar , Physiology Post Graduate student titled: “Exercise and Physical Activity: Recent Trends and Future Challenges” Authors: Lahkar A, Mondal S, Monga M, Chouhan S, Pangtey G.Sheld on 28th February 2020 at MAMC, New Delhi.

PHYSIOLOGY (MAMC)

Major Activities and Achievements

- The department of physiology is concerned with teaching, research and administrative works. Students of MBBS, BDS, Nursing, MD are taught. The department co-ordinates the internship programme of the institute for MBBS students.

- ii. In year 2019-2020, department of physiology organized a national conference, workshop and a 1st year undergraduate quiz.

Honours/ Distinctions

Dr. V. P. Varshney

- i. Member of DRDO selection board.
- ii. As Chairperson in scientific session at VIIIth FIPS Congress 2019, held at ESIC Medical College, on 26-29 September, 2019.

Dr. Aarti Sood Mahajan

Paper setter & External examiner, AIIMS, Nagpur for MBBS 29-30 July 2019

Dr. Mona Bedi

Judged the poster presentation at VIIIth FIPS Congress 2019, held at ESIC Medical College, on 26-29 Sept., 2019.

Dr. Payal Bhalla

- i. Judged the Poster Presentation at CME on 'Holistic Approach to Pain' on 9th November, 2019 at Santosh Medical College and hospital, Ghaziabad.
- ii. External expert for BOT/BPT Ist Year Physiology Exam on 14th May, 2019 at Hamdard Institute of Medical Sciences, Jamia Hamdard, Delhi.
- iii. External expert for LMT (Life sciences) Ist Year Physiology Practical Exam and Viva voce on 7th June, 2019 at Integrated Institute of Technology, sector-9, Dwarka, Delhi

Publications

Dr. V. P. Varshney

Published a book entitled "Textbook of Practical Physiology".

Dr. Aarti Sood Mahajan

- i. Mahajan AS. (2019) Favourable influence of revised basic course workshops in medical education technology in knowledge of teaching, learning and assessment methods of Participants. SEAJME, 13(1):pp19-26.
- ii. Mahajan AS. (2019) Competency based medical education in India: Relevance of proposed curriculum to Physiology. IJBAP, 8(1):1-8.
- iii. Pawade YR, Mehta S, Mahajan AS, Patil SN, Barua P, Desai C, Supe AN. (2019) Blueprint in Assessment- an Online learning experience. SEAJME, 13(2):77-85

Dr. Mona Bedi

Published a book entitled "Textbook of Practical Physiology".

Dr. Preeti Jain:

- i. Sekhar Jiwal, Preeti Jain, Ajay Kumar Jain (2020). Behavioural and neuro-electrical correlates of cognitive performance in young mobile-gamers of endless runner and match three genres. *International Journal of Adolescent Medicine and Health*; 20190152:1.
- ii. Sekhar Jiwal, Preeti Jain, Ajay Kumar Jain (2019). Impact of Playing Action and Puzzle Video-games on Attention and Executive Function: A Comparative Study. *Indian Journal of Physiology and Pharmacology* 2019; 63(2) : 122–129.

Dr. Ravi Kaushik

- i. Bardhan M, Kaushik R. Physiology, Complement Cascade. [Updated 2019 Nov 26]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-Available from: <https://www.ncbi.nlm.nih.gov/books/NBK551511/>
- ii. LaPelusa A, Kaushik R. Physiology, Proteins. [Updated 2020 Mar 24]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK555990/>
- iii. Mehrotra R, Kaushik R. (2020). Why smokeless tobacco control needs to be strengthened?. *Cancer control: Journal of the Moffitt Cancer Center*, 27(1), 1073274820914659. <https://doi.org/10.1177/1073274820914659>
- iv. Rajendran P, Kaushik R, Alzahrani M, Arulselvan P, Rengarajan T, Arthanari U. Polyphenols and Cancer. In Rahman, Chaudhary; *Frontiers in Anticancer Drug Discovery*. 2019. Vol. 10. 62-110. ISBN: 9789811401916.
- v. Yadav A, Singh PK, Yadav N, Kaushik R, Chandan K, Chandra A, Singh S, Garg S, Gupta PC, Sinha DN, Mehrotra R. (2020). Smokeless tobacco control in India: policy review and lessons for high-burden countries. *BMJ global health*, 5(7), e002367. <https://doi.org/10.1136/bmjgh-2020-002367>

Conferences Organized

Dr. V.P. Varshney

- i. Organized as chairperson National CONFERENCE & WORKSHOP 2020 “Exercise and Physical Activity: Recent Trends and Future Challenges” On 28th and 29th February, 2020 at Department of Physiology, MAMC.
- ii. Organized CME entitled ‘Global trends in Neuropsychophysiology research’ and Workshop on ‘Clinical Electro-diagnostic tools for Teaching and Research’ on 16th September, 2019 at MAMC.
- iii. Organized Dr. G. K. Pal’s lecture on regulation of posture jointly organized by Jaypee Brother Medical Publisher & Dept. Of Physiology, MAMC, held on 30th Jan. 2020.
- iv. Organized undergraduate intracollege declamation contest, organized by the dept. Of Physiology, MAMC held on 30th Jan. 2020.

Dr. Bal Krishna

- i. Organized as chairperson one national conference on the topic, “Recent Advances in Parkinson’s disease” 16 February, 2019.

Dr. Dayaram Haldwani

- i. Attended Conference and workshop 2020: Exercise and Physical Activity: Recent Trends and Future Challenges. 28-29 Feb 2020, MAMC

Dr. Mona Bedi

- i. Organizing Secretary in National CONFERENCE & WORKSHOP 2020 “Exercise and Physical Activity: Recent Trends and Future Challenges” On 28th and 29th February, 2020 at Department of Physiology, MAMC.

Dr. Payal Bhalla

- i. Helped organize CME entitled ‘Global trends in Neuropsychophysiology research’ and Workshop on ‘Clinical Electro-diagnostic tools for Teaching and Research’ on 16th September, 2019 at MAMC.
- ii. Helped organise National CONFERENCE & WORKSHOP 2020 “Exercise and Physical Activity: Recent Trends and Future Challenges” On 28th and 29th February, 2020 at DEPARTMENT OF PHYSIOLOGY, MAMC

Dr. Ravi Kaushik

Conference and workshop 2020: Exercise and Physical Activity: Recent Trends and Future Challenges. 28-29 Feb 2020, MAMC

Faculty Strength : 10

PHYSIOLOGY (VPCI)

Major Activities and Achievements

Providing Cardio-pulmonary Rehabilitation Services: Cardio-Pulmonary Rehabilitation Clinic at Vishwanathan Chest Hospital, VPCI is involved in management of chronic respiratory patients who have breathlessness on exertion and often disabled in activities of daily living (ADL) due to shortness of breath despite being on optimal pharmacological treatment. Pulmonary rehabilitation program helps in regaining the functional capacity and reduce disability in these type of patient. Total Numbers of patients attended in Cardio-Pulmonary Rehabilitation Clinic include: (i) Breathing retraining & education-385, (ii) Completed Supervised Rehabilitation program-42

Journals

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board- Dr Vishal Bansal is member of the Editorial board of Journal of Krishna Institute of Medical Sciences (JKIMSU), published by Krishna Institute of Medical Sciences, Maharashtra, India.

Research Projects

Cognitive performance after short duration sub-maximal exercise in young adults Principal Investigator- Dr Vishal Bansal (Extra- mural funded project from LSRB, DRDO. Sanctioned amount Rs. 26, 59,329/-, Three years duration; 27th June, 2018 – 26th June, 2021).

Conferences Organized

Dr Vishal Bansal organized, Certificate Course on Pulmonary Rehabilitation, 8th – 9th December, 2019, Self-supported by V P Chest Institute.

Seminar/Conference Presentations

• National Conferences

- i. Dr Vishal Bansal delivered lecture on 'Interventions to Improve Hypoxia Tolerance', in 10th National Leh Symposium entitled, 'Clinical and Molecular Portrayals under Hypoxia'; organized by CSIR-Institute of Genomics and Integrative Biology Mall Road, Delhi-110007 at Delhi on 15th November, 2019.
- ii. Dr Vishal Bansal delivered lecture on 'Interventions to Improve Hypoxia Tolerance', in Continuing Education Programme (CEP) entitled, 'Pathophysiology of High Altitude Disease', organized by Defence Institute of Physiology and Allied Sciences, DRDO, Delhi-110054; at Delhi on 19th–21st November, 2019.
- iii. Dr Vishal Bansal delivered lecture on 'Lung Function and its variability in healthy and diseased states' in Continuing Medical Education program (CME) entitled, "Ayurgenomics and Integrative medicine for Wellness" organized by Centre of Excellence for applied development of Ayurveda Prakriti and Genomics, CSIR-IGIB, New Delhi-110025 at Delhi on 20th – 26th November, 2019.

• International Conference

- i. Dr Vishal Bansal delivered lecture on 'Respiratory fitness in special situations and surgery' in 11th Annual Academic Session entitled, 'Respire-11'; organized by Sri Lanka College of Pulmonologists, Colombo, Sri Lanka at Colombo, Sri Lanka on 29th– 31st October, 2019.
- ii. Dr Vishal Bansal delivered lecture on 'Novel approaches for Pulmonary Rehabilitation in Chronic Lung Diseases' Sri Lanka College of Pulmonologists, Colombo, Sri Lanka; 11th Annual Academic Session entitled, 'Respire-11'; 29th– 31st October, 2019.

Number of faculty Permanent/temporary/Ad-hoc: One, permanent.

- a. Dr Vishal Bansal

PSYCHIATRY (LHMC)

Publications

- Raut NB, Banokar P, Pinto C. Analysis of Psychiatric Evaluation of Employees Referred after Unauthorized Absenteeism in a Tertiary Level Railway Hospital. *J Adv Res Psychol Psychother* 2020; 3(1): 1-6
- Ramdas Ransing, Prerna Kukreti, Smita Deshpande, Shashwati Godake, Neelam Neelam, Pracheth Raghuvver, Mahesh Mahadevaiah, Dinesh Kataria, Suvarna Patil, Manju Puri, Kumari Padma. Perinatal depression–knowledge gap among service providers and service utilizers in India. *Asian Journal of Psychiatry* 2020 (47): 101822
- Ramdas Ransing, Smita N. Deshpande, Shreya R. Shete, Ishwar Patil, Prerna Kukreti, Pracheth Raghuvver, Mahesh Mahadevaiah, Nandkumar Bhosale, Vallamkonda OmSai Ramesh, Manju Puri, Priyanka Bantwal, Pracheth Raghuvver, Assessing Antenatal Depression in Primary Care with the PHQ-2 and PHQ-9: Can It Be Carried Out by Auxiliary Nurse Midwife. *Asian Journal of Psychiatry* 2020 (49): 102109
- Kaur H, Chavan BS. Cultural Beliefs Associated with Menstruation and Link with Mental Illness- An Indian Male's Perspective. *J Adv Res Psychol Psychother* 2020; 3(1): 7-12

- Kumar M, Jiloha RC, Kataria D, Prasad S, Vohora D. Effect of selective serotonin reuptake inhibitors on markers of bone loss. *Psychiatry Research*. 2019 Jun;276:39-44. DOI: 10.1016/j.psychres.2019.04.006.
- Mukherjee D, Avinash P.R, Rehman S, Chetia D.A Retrospective Follow-Up Study On Diagnostic Stability Of Acute And Transient Psychotic Disorder In A Tertiary Mental Health Institute Of North-East India. *International Journal of Scientific Research*, 2019 Apr:Vol.8(4): 72-74.
- Singh S, Sinha D, Raut NB. Caregiving experience and marital adjustment in spouses of patients with schizophrenia. *Indian J Soc Psychiatry*. 2019; 35:125.

Faculty Strength

Professor : 1
Associate Professor: 4
Specialist : 2

PSYCHIATRY (MAMC)

Major activities and achievement

1. Enhancement of academic activities (number of seminar, Journal club and case conference) and research activities.
2. Exclusive care for Psychological ailment to COVID 19 patient in LNJP Hospital.
3. Juvenile de-addiction, Child and adolescent psychiatry and Adult de-addiction psychiatry have re-started after 2 years of no service.

Publication

1. Biswas, P.S., Sen, D., Homchoudhary, A., Kapoor, M., Agarwal, A., Makkar, D., Goel, A. Association of Association of demographic, clinical, laboratory, and radiological characteristics with outcomes of COVID-19 patients: A systematic review and Meta-analysis. *Journal of Microbiology and Infectious Diseases* 2020; 10(3):121-135.
2. Biswas, P.S., Sen, D. Hydroxychloroquine and chloroquine for COVID-19: psychiatric aspects of patient safety considerations. *Therapeutic Advances in Drug Safety* 2020, 11: 1-3.
3. Choudhuri AH, Duggal S, Biswas PS, Uppal R. A comparison of acute physiology and chronic health evaluation II score and serum procalcitonin change for predicting mortality in acute pancreatitis. *Indian Journal of Critical Care Medicine* 2020; 24(3):190-194. (In collaboration with the department of Anaesthesia, GIPMER)
4. Choudhuri AH, Ahuja B, Biswas PS, Uppal R. Epidemiology of Multidrug Resistant Infections after Inter ICU Transfer in India. *Indian Journal of Critical Care Medicine* 2019; 23(1), 1-6. (In collaboration with the department of Anaesthesia, GIPMER).

Seminar organized :

Departmental academic seminars = 20

Faculty strength:

Director Professor : 1
Associate Professor: 5

PSYCHIATRY (UCMS)

Distinctions achieved by the members of the faculty either at the national and/or international level

A. Awards

NAME	Award	Date Received
Dr. Bhatia M.S.	Dr. Ravi Nehru Memorial Award of Delhi Psychiatric Society for best published paper in Neuropsychiatry/ Neuropsychology	Received in December 2019
Dr. Srivastava Shruti	Dr. Ravi Nehru Memorial Award of Delhi Psychiatric Society for best published paper in Neuropsychiatry/ Neuropsychology.	Received in December 2019

B. Other Distinctions

Name	Distinction
Dr Bhatia M.S.	Participant in Field Study of ICD-11 (Mental & Behavioural Disorders) by World Health Organization, 2018 onwards Selected reviewer in many International Journals e.g. British Journal of Psychiatry, American Journal of Psychiatry, BMC Psychiatry, Journal of Clinical Psychiatry, Journal of Psychosomatic Medicine etc.
Dr. Srivastava Shruti	Elected hon. treasurer of delhi psychiatric society Subject expert for recruitment of faculty posts in Rohtak Convenor of indian psychiatric society(ips) Convenor, Patient Rights Task Force, 2020 Reviewer of reputed international journals

Seminars and Conferences of National / International Significance held in the Department

CONFERENCE/CME HELD	DATES
Involved in training medical staff, nursing staff, students, faculty, public in spreading awareness on World Mental Health Day, 2019 on this year's theme on "Mental Health Promotion and Suicide Prevention" by conducting lectures throughout Mental Health Week and educating public through the newspapers. Involved in training undergraduate, postgraduate medical and nursing	10 th October World Mental Health Day & week

students on gender sensitization through workshops. Involved in training nursing students on the behavioural intervention on Internet /Cell phone Addiction	2019-2020 2019-2020
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FUNDED PROJECTS COMPLETED

Principal Investigator	Title of the Project	Funded by	Grant Rs.
Soham Sekhar Patra, 3 rd year MBBS student	“Knowledge and attitude towards homosexuality among college students in Delhi, in the current scenario.”	ICMR STS	Student received as per ICMR

PUBLICATIONS OF FACULTY/RESIDENTS

(a) PUBLICATIONS IN INDEXED JOURNALS

NATIONAL

- Bhatia MS. Does the precept of role and religious beliefs affect stress in Indian doctors? –Commentary. J Postgrad Med 2019;65:197-198.
- Bhatia MS, Goyal A. Games people play: The next generation addiction. Commentary. Med J Armed Forces (India) 2019;75:119-120.
- Srivastava S, Bhatia MS, Gaur A, Singh G. Psychiatric and cognitive correlates of quality of life among persons with primary brain tumors. Industrial Psychiatr J 2019;28:141-147.
- Bhatia MS. Psychoeconomics – the upcoming role of mental health professionals. Delhi Psychiatr J 2019;22(1):5-6.
- Srivastava S. World Mental Health day(10th October,2019). Theme: Mental Health promotion and suicide prevention. Delhi Psychiatry J 2019;22(2):397-98.
- Bhatia MS, Goyal A, Priyadarshini NC. Evenamide – a new hope for treatment resistant schizophrenia. Delhi Psychiatr J 2019;22(1):171-174.
- Malhotra S, Khan W, Bhatia MS. Gender differences in parenting stress in caregivers of children with intellectually disability. Delhi Psychiatr J 2019;22(1):68-71.
- Kaur N, Malhotra S, Duggal N, Bhatia MS. Psychological aspects of swine flu. Delhi Psychiatr J 2019;22(1):139-143.
- Kaur J, Masaun M, Bhatia MS. Management of obesity in children and adolescents – psychophysiotherapeutic approach. Delhi Psychiatr J 2019;22(1):144-150.
- Kaur J, Gupta M, Bhatia MS. Psychophysical aspects of cardiac rehabilitation. Delhi Psychiatr J 2019;22(1):151-157.
- Bhatia MS, Goyal A. Inhalant addiction – “The silent epidemic”. Ed. Prasad S. book review Delhi Psychiatr J 2019;22(1):183..

- Bhatia NK, Bhatia NK, Bhatia MS. Sleep bruxism due to paroxetine. *Delhi Psychiatr J* 2019;22(1):180-182.
- Priya A, Chaturvedi S, Bhasin SK, Bhatia MS. Are pregnant women also vulnerable to domestic violence? A community-based enquiry for prevalence and predictors of domestic violence among pregnant women. *J Fam Med Prim Care* 2019;8:1575-1579.
- Bhatia MS, Kaur N. Microbiome – a new gateway to research. *Delhi Psychiatr J* 2019;22(2):199-200.
- Kaur J, Sharma S, Bhatia MS. Psychophysiotherapy in management of cervical dystonia. *Delhi Psychiatr J* 2019;22(2):379-385.
- Kaur J, Gupta M, Masaun M, Bhatia MS. Postpartum depression - psychophysiotherapeutic approach. *Delhi Psychiatr J* 2019;22(2):386-390.
- Goyal A, Bhatia MS. Bremelanotide. Kaur J, Sharma S, Bhatia MS. Psychophysiotherapy in management of cervical dystonia. *Delhi Psychiatr J* 2019;22(2):399-400.
- Sonwani NS, Aggarwal NK, Bhatia MS. An overview of Organ Transplant Act: Role of psychiatrist and forensic expert. *Delhi Psychiatr J* 2019;22(2):408-410.
- Gupta N, Rai R, Garg S, Taneja HC, Bhatia MS, Vaid L. Taste function and salivary analysis in patients with oral sensorial complaints. *Indian J Oral Health Res* 2019;5:17-22.
- Bhatia MS. Maternal risk factors of postnatal depression. *J Postgrad Med.* 2020 Jan-Mar;66(1):7-8. doi: 10.4103/jpgm.JPGM_350_19.

INTERNATIONAL

- Bhatia NK, Bhatia NK, Bhatia MS. Behavioural profile of Intellectuality disabled patients attending a tertiary care center in India. *World J Pharmaceut Res* 2019; 5(3):102-107.
- Bhatia MS, Aggarwal NK. Psychiatric and toxicological profile of patients attempting suicide brought to a tertiary care center in capital city of Delhi. *Eur J Pharmaceut Med Res* 2019;6 (10):493-496.
- Dutt R, Shankar N, Srivastava S, Yadav A, Ahmed RS. Cardiac autonomic tone, plasma BDNF levels and paroxetine response in newly diagnosed patients of generalised anxiety disorder. *Int J Psychiatry Clin Pract.* 2020 Jun; 24(2):135-142. doi: 10.1080/13651501.2020.1723642. Epub 2020 Feb 5. PMID: 32022607
- Bhatia NK, Bhatia NK, Bhatia MS. Sleep bruxism successfully treated with clobazam. *World J Pharmaceut Res* 2019;8:861-865.

(b) CHAPTERS IN BOOKS

- Bhatia MS, Goyal A. Gender Roles in Mental Health:A Stigmatized Perspective. In: *Gender and Mental Health.* Meenu Anand (ed). Singapore: Springer Nature Singapore Pte Ltd. 2020:47-62.
- Bhatia MS, Gupta R. Non-epileptic seizures – Psychosocial factors and patients’ perspectives. In: Markus Reuber, Steven Schachter and Gregg Rawlings *Non-Epileptic Seizures in Our Experience: Accounts of Health Care Professionals (The Brainstorms Series).* USA: Cambridge University Press, 2020.

- Bhatia M.S. Somatoform disorders. Textbook of Psychiatry for undergraduates. JAYPEE Publishers, Delhi: Indian Psychiatric Society, 2020.

(g) BOOKS

- Bhatia MS, Singhal PK. Problems of behaviour in children. 4th ed. CBS Publishers and Distributors Pvt. Ltd. Darya Ganj, New Delhi, 2020.
- Bhatia M.S.Psychiatric Nursing. 6th ed. CBS Publishers and Distributors, Delhi,2019.
- Bhatia MS, Jagawat T. Differential Diagnosis in Psychiatry. 3rd ed. CBS Publishers and Distributors, Delhi,1997, 2019.
- Bhatia M.S. Manorog: Galat Dharnayen aur sahi pahloo (Hindi) by National Book Trust, Delhi (Reprint):2020.

SIGNIFICANT ACHIEVEMENTS DURING THE YEAR

The department won Dr. Ravi Nehru Memorial Award of Delhi Psychiatric Society for best published paper in Neuropsychiatry/ Neuropsychology. We are conducting training programme for medical staff of UCMS & GTB Hospital, on ICD-10 and other important mental health issues. The department is regularly training medical students under ICMR STS Programme and currently, it is the only psychiatry department under Faculty of Medical Sciences providing PhD training in psychiatry.Both M.S. Bhatia and Shruti Srivastava are acting as cosupervisors in thesis from other departments. M.S. Bhatia is providing services as Chairman to various disciplinary matters (of students, employees and faculty).The Department is providing providing Psychological First Aid. Delhi Psychiatry Journal (an indexed and peer-reviewed journal) is published from the department on behalf of Delhi Psychiatric Society.

PHYSICAL MEDICINE AND REHABILITATION (PMR) (LHMC)

Publications:

1. Majumdar R, Bhatnagar Bhardwaj S, Gupta V.K, et al. A Comparative Study of Musculoskeletal Disorders in Primary Caregivers of Children with Cerebral Palsy & Autism Spectrum Disorder.IJSR.2019 Feb; 8(2): 66-67.
2. Yadav S, Chand S, Majumdar R, Sud A. Effect of botulinum toxin type-A in spasticity and Functional outcome of upper limbs in cerebral palsy. JCOT.2020 Mar;11(2):208-212
3. Majumdar R, Jain S. Comparison of Quality of Life of Caregivers of Children with and without Disabilities.JCDR.2020 Mar.; 14(3):01-04

National & International Conferences/Symposia/Seminars/Workshops/CMEs attended by faculty Members:

National Conferences

S.No.	Name & designation of the participant	Role/Topic	Organizer	Name of the Conference, Venue & Date

S.No.	Name & designation of the participant	Role/Topic	Organizer	Name of the Conference, Venue & Date
1.	Dr.Shikha B.Bhardwaj, Assoc. Prof Dr. Ravi Preenja, Assoc. Prof.	Delegate	Dept of Pediatrics, LHMC, New Delhi	Workshop on protocol writing LHMC, New Delhi 07.08.2019
2.	Dr.Ritu Majumdar, Prof & Head Dr Minati Acharjya, CMO (NFSG) Dr.Sonal Chauhan, Assoc Prof Dr.Shikha B.Bhardwaj, Assoc Prof	Delegates	Dept. of PMR, AIIMS, Delhi LHMC & Associated Hospitals	Clinical Meet of IPARM on 'Musculoskeletal Physiatry & Pain Interventions', AIIMS, New Delhi 10.08.2019
3.	Dr V. K. Gupta, Consultant	Delegate	Indian Academy of Pediatrics (West Delhi Branch)	National Original Research Convention for Practicing Pediatricians, New Delhi 10.08.2019-11.08.2019
4.	Dr. Ritu Majumdar, Prof & Head	Delivered talk on 'Overview of Cerebral Palsy Rehabilitation'	Institute of Neurosciences, Kolkata	CME on Cerebral Palsy, Institute of Neurosciences, Kolkata 17.08.2019-18.08.2019
5.	Dr V. K Gupta, Consultant	Chaired CME Programme	Meerut Medical Alumini Association	CME Programme (Revelations 2019) New Delhi 03.11.2019
6.	Dr Ritu Majumdar, Prof & Head Dr V. K. Gupta, Consultant Dr Minati Acharjya, CMO (NFSG) Dr. Sonal Chauhan, Assoc Prof Shikha B.Bhardwaj, Assoc Pro Dr.Ravi Preenja, Assoc Prof	Panelist in Panel Discussion on 'Disability Competencies in UG Curriculum – The Way Forward' Chairperson in 'Gold Medal Award Session' on 01/12/19. - Chaired scientific session on "Critical Care Rehabilitation" Chaired a session (free paper) Chaired a session (free paper)	PMR Department, ABVIMS & Dr RML Hospital, New Delhi	14 th Annual Conference of Indraprastha Association of Rehabilitation Medicine (Delhi PMRCON 2019) ABVIMS & Dr RML Hospital 30.11.2019 – 01.12.2019

S.No.	Name & designation of the participant	Role/Topic	Organizer	Name of the Conference, Venue & Date
		Delegates		
7.	Dr Ritu Majumdar, Prof & Head	Panelist in Panel Discussion on 'Adolescent with Epilepsy'.	Paediatrics Department, LHMC	Annual CME 2019, Kalawati Saran Children's Hospital, New Delhi 08.12.2019
8.	Dr Ritu Majumdar, Prof & Head	Delegate	Paediatrics Department, LHMC	Training on 'RTI Matters' Kalawati Saran Children's Hospital, New Delhi 27.12.2019

Representation on Expert bodies/Committees

S.No	Faculty	Representation on Expert Bodies/Committees
1.	Dr Ritu Majumdar, Prof & HOD	<ol style="list-style-type: none"> UDID (Unique Disability ID) Project Coordinator of KSCH Member of Cadre Restructuring of Physiotherapists in four government hospitals under MOHFW, DGHS, New Delhi Member of committee to identify posts for Persons with Disabilities in Kalawati Saran Children's Hospital
2.	Dr Sonal Chauhan, Assoc Prof	<ol style="list-style-type: none"> Member of Committee for Procurement of Equipment for High Performance Tactical Training & Advance Rehabilitation Centre for Divyang Yodhas & Para-athletes of BSF in DGHS Member Expert Committee Janakpuri Superspeciality Hospital for Procurement of Equipment in Neurorehab Department
3.	Dr Ravi Preenja, Assoc Prof	<ol style="list-style-type: none"> Medical Coordinator for Ayushman Bharat Scheme for Kalawati Saran Children's Hospital

New Initiatives/Special Achievement:

Department of PMR in collaboration with Department of Neurology started Neuro- rehabilitation OPD in Smt. S. K. Hospital on every Tuesday from last week of September & Rehabilitation to patients in Neurology ward, SSKH.

PULMONARY MEDICINE (VPCI)

Major Activities/Achievements

Postgraduate medical education and patient care are the thrust areas of the Department of Pulmonary Medicine at VPCI. The Viswanathan Chest Hospital provided specialized clinical consultations, diagnostics and treatment services to patients referred from all over India and neighboring countries. During 2019-20, VPCI was empanelled under the Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (PMJAY) for the benefit of economically vulnerable Indians who are in need of healthcare facilities. During the year, over 14,500 new patients registered at our OPD for consultation and over 60,000 cases came to OPD for follow-up. The Indoor General Ward admitted over 2,000 patients and the Emergency Ward admitted over 2,500 patients. Over 35,000 patients were provided emergency treatment. The RICU admitted 380 patients for intensive care. Number of routine and specialized investigations done at the hospital during the year included – over 20,000 Pulmonary Function tests, 2,000 CT scans, 21,000 X rays, 35,000 clinical biochemistry tests, over 3200 ECG tests, 220 polysomnograms, more than thousand skin tests, HIV, Serum IgE/IgG, Serum ACE, Thyroid Profile, ANA, HbsAg, HCV etc.

The National Tobacco Quit Line service (NTQLS) has been working successfully at VPCI since May 2016. During the year, the NTQLS with its aim of reaching out to the masses and provide confidential and quality counseling services all over India, handled a total number of 1788277 calls on the Interactive Voice response (IVR). The total number of inbound calls during this period was 120909 whereas the total number of outbound calls was 404019. In this period a total number of 50615 callers were registered who were provided counseling. The success rate of National Tobacco Quitline Service during this period is 26.39%.

VPCI installed a Pollen Count Station at the roof of the multi-storeyed building, in which two “Burkard Air Samplers” were installed. In this station air samples are collected and studied on daily bases. The total of 781 slides were analyzed during the period 1st April 2019 to 31st March 2020, including, 384 seven day’s slides and 397 one day slides.

Studies were carried under topics entitled: Tobacco Menace from Conventional to E-cigarettes, Association of Indoor Air Pollution with Allergic Respiratory Diseases in Paediatric Population Residing in National Capital Region.

Honours/Distinctions

Dr. Raj Kumar was External Examiner, DM Pulmonary Medicine - Practical & viva voce examination at PGIMER, Chandigarh dt. 03.05.2019.

Dr. Raj Kumar was the Visitor Nominee, Executive Council of Nagaland University for a period of 3 (three) years. dt. 27.05.2019.

Dr. Raj Kumar received World No Tobacco Day Award-2019 South-East Asian Region In the Area of Tobacco Control during National Conference of Tobacco and Health on 31st May, 2019 at Hotel The Lalit, Delhi Delhi on the occasion of World No Tobacco Day on 31.05.2019 by WHO, India.

- Dr. Raj Kumar was Member, Pulmonary specialty, Committee of Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (AB PM-JAY), National Health Authority, Govt. of India. Dt. 19.06.2019.
- Dr. Raj Kumar was Expert, Selection/Promotion of Faculty members in the subject of Respiratory Medicine at King George's Medical University, Lucknow dt. 07.08.2019.
- Dr. Raj Kumar was Expert, Selection Committee meeting for college premises for part time allopathic doctor at Sri Aurobindo College (Day) on 02.09.2019
- Dr. Raj Kumar was Examiner, DM (Pulmonary & Critical Care Medicine) - Practical & viva voce examination at PGIMS, Rohtak dt. 08.08.2019.
- Dr. Raj Kumar delivered CG Urugoda Oration-2019 Contribution in the field of Allergy & Immunotherapy on 29.10.2019 by Sri Lanka College of Pulmonologist during Respire-11, Srilanka
- Dr. Raj Kumar was SC/ST Representative for Selection Committee for post of Director, Non-Collegiate Women's Education Board (NCWEB) at VC committee Room, Viceregal Lodge, University of Delhi, Delhi dt. 04.10.2019
- Dr. Raj Kumar received 7th Foundation Day Lecture Award for contribution in the field of Allergy, Asthma and Immunology on Lecture entitled, 'Indoor Air Pollution and Respiratory Allergy' during Conference, ICAAICON-2019 NITRD, New Delhi on 09.11.2019 by The Indian College of Allergy Asthma, and Applied Immunology, New Delhi.
- Dr. Raj Kumar was Expert Member, NPCCHH- meeting of Technical Expert Committee on Air Pollution and Health at NCD, Shamnath Marg, Delhi on 13.11.2019
- Dr. Raj Kumar was Expert, Selection Committee meeting for selection of Principal, School of Open Learning, University of Delhi, Delhi at Office of the Director, Institute of Life Long Learning, Delhi dated 20.12.2019.
- Dr. Raj Kumar was Subject Expert, Selection Committee for interviews of Assistant Professor in Pulmonary Medicine Department of Kalpana Chawla Govt. Medical College, Karnal at Pt. BD Sharma University of Health Sciences, Rohtak dt. 02.01.2020.
- Dr. Raj Kumar was Chairman, Institutional Ethics Committee for the projects of Ramjas College, University of Delhi, Delhi dt. 03.01.2020.
- Dr. Raj Kumar was Expert, Selection Committee for appointment of Principal, Swami Sharddhanand College at Vice Chancellor's Committee Room, Vice Regal Lodge, University of Delhi, Delhi dated March 4, 2020.

Publications

1. Mohan A, Madan K, Hadda V, Tiwari P, Mittal S, Guleria R, Khilnani G C, Luhadia S K, Solanki R N, Gupta K B, Swarnakar R, Gaur S N, Singhal P, Ayub II, Bansal S, Bista PR, Biswal SK, Dhungana A, Doddamani S, Dubey D, Garg A, Hussain T, Iyer H, Kavitha V, Kalai U, Kumar R, Mehta S, Nongpiur VN, Loganathan N, Sryma P B, Pangeni RP, Shrestha P, Singh J, Suri T, Agarwal S, Agarwal R, Aggarwal AN, Agrawal G, Arora SS, Thangakunam B, Behera D, Jayachandra, Chaudhry D, Chawla R, Chawla R, Chhajed P, Christopher DJ, Daga M K, Das RK, D'Souza G, Dhar R, Dhooira S, Ghoshal AG, Goel M, Gopal B, Goyal R, Gupta N, Jain N K, Jain N, Jindal A, Jindal S K, Kant S, Katiyar S, Katiyar S K, Koul PA, Kumar J, Kumar R, Lall A, Mehta R, Nath A, Pattabhiraman V R, Patel D, Prasad R, Samaria J K,

- Sehgal IS, Shah S, Sindhvani G, Singh S, Singh V, Singla R, Suri J C, Talwar D, Jayalakshmi T K, Rajagopal T P. Guidelines for diagnostic flexible bronchoscopy in adults: Joint Indian Chest Society/National College of chest physicians (I)/Indian association for bronchology recommendations. *Lung India* [serial online] 2019;36, Suppl S2:37-89. Available from: <https://www.lungindia.com/text.asp?2019/36/8/37/263337>
2. Aggarwal AN, Agarwal R, Dhoooria S, Prasad KT, Sehgal IS, Muthu V, Singh N, Behera D, Jindal SK, Singh V, Chawla R, Samaria JK, Gaur SN, Agrawal A, Chhabra SK, Chopra V, Christopher DJ, Dhar R, Ghoshal AG, Guleria R, Handa A, Jain NK, Janmeja AK, Kant S, Khilnani GC, Kumar R, Mehta R, Mishra N, Mohan A, Mohapatra PR, Patel D, Ram B, Sharma SK, Singla R, Suri JC, Swarnakar R, Talwar D, Narasimhan RL, Maji S, Bandopadhyay A, Basumatary N, Mukherjee A, Baldi M, Baikunje N, Kalpakam H, Upadhya P, Kodati R. Joint Indian Chest Society-National College of Chest Physicians (India) guidelines for spirometry. *Lung India*. 2019 Apr;36(Supplement):S1-S35. doi: 10.4103/lungindia.lungindia_300_18. PMID: 31006703; PMCID: PMC6489506.
 3. Madan K, Mittal S, Suri TM, Jain A, Mohan A, Hadda V, Tiwari P, Guleria R, Talwar D, Chaudhri S, Singh V, Swarnakar R, Bharti SJ, Garg R, Gupta N, Kumar V, Agarwal R, Aggarwal AN, Ayub I, Chhajed PN, Dhamija A, Dhar R, Dhoooria S, Gonuguntla HK, Goyal R, Koul PA, Kumar R, Maturu N, Mehta RM, Parakh U, Pattabhiraman V, Raghupathi N, Sehgal IS, Srinivasan A, Venkatnarayan K.(2020). Bronchial thermoplasty for severe asthma: A position statement of the Indian chest society. *Lung India*;37:86-96.
 4. Kumar R, Mrigpuri P, Vikrant, Spalgais S. Endobronchial Ultrasound-guided Transbronchial Needle Aspiration Under Local Anesthesia: Real-time Experience Over Two Years in a Tertiary Care Hospital in North India. *Indian J Chest Dis Allied Sci* 2020;62:19-22.
 5. Raj Kumar. (2019) Tobacco Menace from Conventional to E-cigarettes. *Indian J Chest Dis Allied Sci.*, 61:169-170
 6. Raj Kumar, Kamal Singh, Jitendra Kumar Nagar, Anil Kumar Mavi, Manoj Kumar, Deepak Kumar.(2019). Association of Indoor Air Pollution with Allergic Respiratory Diseases in Paediatric Population Residing in National Capital Region. *Indian J Chest Dis Allied Sci.* ;61:181-197
 7. Rathi V, Ish P, Singh G, Tiwari M, Goel N, Gaur SN. (2020) Iron deficiency in non-anemic chronic obstructive pulmonary disease in a predominantly male population: an ignored entity. *Monaldi Arch Chest Dis.* 90(1): 38-42. doi:10.4081/monaldi.2020.1126.
- Gupta A, Mrigpuri P. An unusual cause for massive pleural effusion, *Indian J Chest Dis Allied Sci.*,2019,61,141-142.
 - Spalgais S, Kumar R, Mrigpuri P. (2020). Symptomatic Pulmonary Siderosis in Scissors/Knife Sharpening Worker: A Case Report. *Indian J Occup Environ Med.*;24(1):42-44.
 - Choudhari OK, Spalgais S, Chaudhary A, Sharma D, Ojha UC. Bagassosis: A case report on rare hypersensitivity pneumonitis. *Indian J Case Reports.* 2020;6(7):409-412.
 - Spalgais S and Gothi D, Sah RB, Choudhari OK, Ojha UC and Pal RS. Diagnostic Yield and Complications of CT-guided Peripheral Lung Lesion Biopsy: A Pulmonologist Experience. *Indian J Chest Dis Allied Sci* 2019;61:175-179.

Chapters in Books

1. Rajendra Prasad and Raj Kumar (2019). Allergy Situation in India. 44th Workshop on Respiratory Allergy, Diagnosis and Management (Page. No1-4), Published by NCRAAI, VP Chest Institute, Delhi. ISBN: 968-81-920556-2-9.
2. Raj Kumar (2019). Allergy Testing. 44th Workshop on Respiratory Allergy, Diagnosis and Management (Page. No.33-70), Published by NCRAAI, VP Chest Institute, Delhi. ISBN: 968-81-920556-2-9. Raj Kumar and Harshveer Singh Malhi (2019). Allergy Testing. 44th Workshop on Respiratory Allergy, Diagnosis and Management (Page. No.264-65), Published by NCRAAI, VP Chest Institute, Delhi. ISBN: 968-81-920556-2-9.

Journals

1. Published by the College: Indian Journal of Chest Diseases and Allied Sciences (IJCDAS) The journal has been revamped to give a fresh look without compromising on quality of articles published.

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|--|----|---|
| 2. Number of College teachers serving as Editor(s)/Member(s)/ of Editorial Board | 04 | <ol style="list-style-type: none"> 1. Dr. Raj Kumar Editor-in-Chief 2. Dr. Malini Sheriff, Member 3. Dr. Balakrishnan Menon, Member 4. Dr. Anuradha Chowdhary, Member |
|--|----|---|

Research Projects

	Funding Agency	Year	Period	Title	Sanctioned In 2018-19 (in Rs. lakhs)
1	MOHFW, GOI	2015	2015-21	National Tobacco Quit Line Services	603.49 lakhs

Seminars Organised

1. Public Lecture & Panel Discussion on “Air Pollution: It’s Impact on Health & Possible Solution” on 2nd April 2019.
2. Seminar on “Hand Hygiene for Nursing Staff” on 4th April 2019.
3. 21st Raman Vishwanathan VPCI Oration delivered by Dr Rohit Sarin, Director, NITRD, titled; “Newer Drugs and Shorter Regimen for MDR TB: The Road Ahead” on 5th April 2019..
4. The 44th Workshop on Respiratory Allergy: Diagnosis and Management from 6th-10th May 2019.
5. The World No Tobacco Day was observed by organizing a seminar with officials from WHO and four prominent college Principals of Delhi University on 30th May 2019.
6. VPCI & Ministry of Health & FW organized training program for physicians and health care providers on Tobacco Cessation Counselling & Treatment on 9th July, 27th July, 6th Aug and 3rd Sep 2019.
7. The 15th Professor Autar Singh Paintal Memorial Oration on on the topic “Challenges & Opportunities in Controlling Infection Diseases in India” on 24th September, 2019.

8. The VK Vijayan Oration on the topic “Bacterial Lysates in Chronic Respiratory Disease – Personal Experience” was delivered by Prof. SK Luhadia on 24th October, 2019.
9. Interaction meet on “No Tobacco Campaign” was held on 13th November, 2019 wherein Principals and educational leaders from many reputed educational institutions.
10. Prof. HS Randhava Oration” on 4th March, 2020. Mr. Ashwini Kumar Choubey, Hon’ble Minister of state for Health and Family Welfare, GOI was the chief guest & Prof. Yogesh Tyagi, Vice Chancellor, University of Delhi was Guest of Honour, Prof. Rakesh Bhatnagar, Vice Chancellor, Banaras Hindu University, Varanasi was Orator of the programme. The faculties, students and staff of the institute and other reputed organisation attended the program.

Other Inter-Institutional Collaboration

1. All India Institute of Medical Sciences, New Delhi.
2. Lady Hardinge Medical College,, New Delhi.
3. Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi.
4. Rajan Babu Institute for Pulmonary Medicine & Tuberculosis (RBIPMT), New Delhi.
5. Institute of Nuclear Medicine & Allied Sciences, DRDO, Delhi.
6. Defence Institute of Physiology and Allied Sciences, DRDO, Delhi.
7. CSIR-IGIB (Institute of Genomics and Integrative Biology), Delhi.

Placement Details

- Number and percentage of students placed ... 100%

No. of degrees awarded

- No. of MD(Pulmonary Medicine) ... 07
- No. of Ph.D degrees awarded ... 01 (submitted)

Faculty Strength: 5

RADIODIAGNOSIS (LHMC)

Major Activities and Acievements:

Our department conducts clinical as well as research work, under the guidance of our expert and experienced senior faculty. Our students are exposed to a wide diversity of cases, providing good learning opportunities. This year, we had the inauguration of a new state-of-the-art 3Tesla MRI machine in our department on 28.08.2019 by Dr Harsh Vardhan, Honorable Minister Of Health And Family Welfare, Government Of India. This has enabled us to improve our patient care services, and also enhance resident education. A three day National Conference, the IRIA Resident Education Program was jointly organized by the Delhi state chapter of IRIA, in collaboration with our department, from 23rd-25th August 2019 at LHMC, New Delhi. This was attended by a large number of student delegates, and was an excellent

learning opportunity. A workshop on 'Proper Technique of Handwash In Medical Care' was held in the department premises on 21.09.2019.

Honours/ Distinctions:

- Dr. Chetna Mishra won second prize for Oral Poster presentation in Delhi Imaging Update held on 8th/9th February 2020 at AIIMS , New Delhi
- Dr. Rama Anand:

Reviewer

Indian Journal of Radiology and Imaging (IJRI) and JCDR

Examiner

MD radiodiagnosis at guru gobindsinghindraprastha university may2019

B.Sc. cardiovascular imaging and endovascular techniques for technologist at aiims – april 2019

PDCC (GI -radiology) Fellowship exam at SGPGI Lucknow Aug 2019

MD Radiodiagnosis at AIIMS new Delhi Dec 2019

Conduct of exam for recruitment of non PG JR in LHMC & assoc. hospitals and Conduct of exam for recruitment of Senior Residents in Radiodiagnosis

Appointed as subject expert in the Board for recruitment of senior resident in Radiodiagnosis at Maulana Azad Medical college New Delhi in Dec 2019

Others

Member of Diamond Jubilee Foundation committee for providing assistance to the UG students

- Dr. Pooja Abbey has been appointed as Reviewer for Indian Journal of Radiology and Imaging (IJRI).
- Dr. Bhawna Satija has been appointed as Reviewer for Journal of Clinical Imaging Science (JCIS)
- Dr. Vikas Chaudhary has been appointed as Reviewer for Journal of Clinical Imaging Science (JCIS), World Journal of Gastroenterology and La Radiologica Medica (LRM).
- Dr. Vikas Chaudhary has been appointed as State Council Member of IRIA (Indian Radiology and imaging association) Delhi branch.

Publications:

- 1) Anand R, Chaudhary V, Narula MK, Gupta I, Choudhury SR, Jain M. 2019. Key Imaging Appearances of Commonly Encountered Pediatric Adrenal Masses. MAMC J Med Sci:105-12
- 2) Khan NA, Pant N, Gupta A, Anand R, Yadav PS, Chadha R, et al. 2019. Radiologic evaluation of uterovaginal abnormalities in girls with congenital pouch colon. J Indian Assoc Pediatr Surg 24:104-8.
- 3) Ramaswamy VV, Saili A, Anand R, Nangia S. 2019 Doppler evaluation of renal blood flow as a predictive index of acute renal failure in perinatal asphyxia. J Pediatr Neonat Individual Med. 8(2):e080210. doi: 10.7363/080210.

- 4) SatijaB, SahuB, Abbey P. Imaging Options for atherosclerosis/Plaque in ‘Essentials of Dyslipidemia’.(under Publication)

Conferences Organized–

S.No.	Faculty Member	Organiser(s)	Name, Venue & Date
1.	Dr.RamaAnand Dr.R.S.Solanki Dr.Pooja Abbey Dr.ShailiTomer Dr.BhawnaSatija Dr.VikasChaudhary Dr.NishatAmina	Delhi State Branch of IRIA in collaboration with department of Radiology LHMC	IRIA Resident Education Program organized by the Delhi state chapter of IRIA, in collaboration with the department of Radio-Diagnosis, Lady Hardinge Medical College- 23 rd -25 th August 2019 at LHMC, New Delhi

RADIODIAGNOSIS (MAMC)

Major activities & achievements

- The department of Radiodiagnosis, MAMC, together with AIIMS New Delhi and PG I Chandigarh published 2 text books as given below.
 - Diagnostic Radiology- Genitourinary Imaging 4th Edition Jaypee Brothers Medical Publishers(P) Ltd. Ed- Garg, Gupta, Sandhu,2019.
 - Diagnostic Radiology-Advances in Imaging Technology 3rdEdition Jaypee Brothers Medical Publishers(P) Ltd. Ed-Gupta, Garg, Sandhu,2019

Dr. Anju Garg is the editor for these books. The departmental faculty contributed several chapters to these text books. These books are a part of a series of eight text books on diagnostic imaging. These books are immensely popular with residents throughout India & even abroad.

- The department added a new digital mammography system thereby improving mammography services to the patient.

Honours /Distinctions

- Dr Anjali Prakash was awarded the Academic Excellence award by Delhi state chapter of IRIA.
- Dr.Sapna Singh was awarded the President Appreciation Award of the Delhi State Chapter of IRIA in Feb 2020.
- Dr. Jyoti Kumar was awarded Dr. DC Agarwal Oration in National IRIA Conference, held at Ahmedabad, in January 2020
- Four prizes awarded for Scientific Paper presentation at the 73rd Annual Conference IRIA in JAN'20 held at Gandhinagar

- i) First prize in Head and Neck imaging for "Multiparametric MRI in ocular and orbital space occupying lesions" by Dr Apoorva Sehgal, Dr Alpana Manchanda, Dr. Jyoti Kumar, Dr Anju Garg, Dr. K. Sarin, Dr Ruchi Goel.
- ii) Second prize in Head and Neck imaging for "Temporomandibular joint internal derangement: can MR provide all answers?" by Dr. Anurag Mehndiratta, Dr. Jyoti Kumar, Dr. Alpana Manchanda.
- iii) Second prize in Neuroradiology for "DTI based white matter atlas of human brain" by Dr. Beenish Khan, Dr. Rashmi Dixit, Dr. Anjali Prakash.
- iv) Second prize in Musculoskeletal Radiology for "High resolution 3T MRI in the evaluation of wrist pain" by Dr. Ashwini Kumari, Dr. Sapna Singh, Dr. Anju Garg, Dr. Anjali Prakash, Dr. Sumit Sural.

Publications :

- 1) Kumar A, Singh S, Garg A, Prakash A, Sural S. Tingling hand: Magnetic Resonance Imaging of median nerve pathologies within the carpal tunnel. *Pol J Radiology* 2019; 84: e484-e490.
- 2) Sharma R, Meher R, Passey JC, Kumar J: Comparative evaluation of round window niche accessibility preoperatively on HRCT of temporal bone with intraoperative findings. *The journal of laryngology and otology*, 133(7):575-579. doi:10.1017/S0022215119001269.
- 3) Karna J, Kumar J, Srividya BT, Prakash A, Singh I, Garg A: Ectopic thyroid tissue in submandibular region. *MAMC J med sci* 2019;5(3):57-62.
- 4) Kumari A, Kumar J, Garg A, Gupta S: Dot in circle sign in actinomycotic mycetoma on MRI and US-a case series 2019;5(3):145-149.
- 5) Singla S, Kumar J, Pandey N: Prevalence and risk factors of subclinical vertebral fractures among women with rheumatoid arthritis. *MAMC J Med. Sci* 2019;5(3):121-127.
- 6) Gulati M, Gupta S, Prakash A, Garg A, Dixit R. HRCT imaging of Acquired Cholesteatoma: A Pictorial Review. *Insights into imaging* 2019.
- 7) Kori R, Bains L, Lal P, Gupta S: Zinner syndrome mimicking bladder outlet obstruction managed with aspiration. *Urology Annals* 09/2019; DOI:10.4103/UA.UA_152_18
- 8) Gupta S, Dixit R, Garg A, Batra R: Atypical Posterior Reversible encephalopathy with spinal cord involvement (PRES-SCI): *EuroRad* 2019 URL: <https://www.euroRad.org/case/16535> ISSN:1563-4086
- 9) Gupta S, Singh K, Garg A, Bhandari PS et al. Clinico-radiological follow up of cherubism with aggressive characteristics- a series of 3 cases. *Oral Surg Oral Med Oral Pathol Oral Radiol* 2019.
- 10) Mittal S, Pradhan G, Singh S, Batra R. T1 and T2 mapping of articular cartilage and menisci in early osteoarthritis of the knee using 3 Tesla Magnetic Resonance Imaging. *Pol J Radiol* 2019;84:549-564
- 11) Bhatia K, Mala YM, Tripathi R, Manchanda A, Singh MM. Validation of a Scoring Model for the Prediction of Peripartum complications in patients with Placenta previa. *International Journal Of Obstetrics and Gynecology Research(IJOGR)* Vol 6 (2019), 708-724.
- 12) Rajesh V, Kumar J, Manchanda A, Mohanty S. Diffusion weighted imaging in characterization of odontogenic cysts and tumors - Oral surgery, Oral medicine, oral pathology and oral radiology. DOI: <https://doi.org/10.1016/j.oooo.2020.04.010>, Published online: May 19, 2020

- 13) Bhagat A, Kumar J, Garg A, Prakash A, Meher R, Arya S. Imaging in inner ear malformations- an algorithmic approach. Indian J Radiol Imaging. 2020, 30(2): 139-148
- 14) Gautam R, Kumar J, Pradhan GS, Passey JC, R Meher R, Mehndiratta A. HRCT evaluation of congenital aural atresia – How useful is this? J Laryngol Otol 2020 Jul 20; 134 (7): 610-622
- 15) Pathak S, Garg A, Kumar J. Encephalo-cranio-cutaneous lipomatosis: A rare congenital neurocutaneous syndrome. Radiology Case reports 20; 15(5): 576-579.
- 16) Mehndiratta A, Kumar J, Manchanda A et al, Painful clicking jaw: a pictorial review of internal derangement of the temporomandibular joint. Pol J radiol 2019, 84:e598-e615
- 17) Udupi VR, Neogi S, Garg A. Comparison of the role of ultrasound guided transhepatic aspiration of gallbladder versus conservative management of acute calculous cholecystitis International Surgery Journal | January 2020 | Vol 7 | Issue 1 Pages 189-193

Journals :

Dr. Jyoti Kumar - Editorial board member of World Journal Of Radiology and Case Reports of Paediatrics

Research Projects/Thesis

There are more than 50 ongoing projects in various specialities with Radiodiagnosis as the coinvestigative department and the faculty members in the department as cosupervisors for these projects.

(A) Thesis submitted in 2019: 20

Conferences organized

1. 4th AIIMS MAMC PGI Imaging Course Series, 5th Course on Genitourinary Imaging was organized by MAMC and held at MAMC Delhi on 15th & 16th Nov, 2019.

Organizing Committee

Organizing Chairperson: Dr. Anju Garg

Organizing Co-Chairperson: Dr. Gaurav Pradhan

Organizing Secretary: Dr. Alpana Manchanda

Organizing Secretary: Dr. Sapna Singh

Treasurer: Dr. Radhika Batra

Faculty Strength

Director Professor : 5

Professor : 2

Assistant Professor : 2

Books/Chapters contributed

Editor

1. Dr. Anju Garg is Editor for the textbook- Diagnostic Radiology- Genitourinary Imaging 4th Edition Jaypee Brothers Medical Publishers(P) Ltd. Ed-Gupta, Garg, Sandhu, 2019
2. Dr. Gaurav S Pradhan is Co-Associate Editor for the textbook- Diagnostic Radiology- Genitourinary Imaging 4th Edition Jaypee Brothers Medical Publishers(P) Ltd. Ed-Gupta, Garg, Sandhu,2019
3. Dr. Alpana Manchanda is Co-Associate Editor for the textbook- Diagnostic Radiology- Genitourinary Imaging 4th Edition Jaypee Brothers Medical Publishers(P) Ltd. Ed-Gupta, Garg, Sandhu,2019
4. Dr. Sapna Singh is Co-Associate Editor for the textbook- Diagnostic Radiology- Genitourinary Imaging 4th Edition Jaypee Brothers Medical Publishers(P) Ltd. Ed-Gupta, Garg, Sandhu,2019
5. Dr. Anju Garg is Editor for the textbook- Diagnostic Radiology- Advances in Imaging Technology 3rd Edition Jaypee Brothers Medical Publishers(P) Ltd. Ed-Gupta,Garg, Sandhu, 2019

Following chapters were contributed in the Text book of Diagnostic Radiology-Advances in Imaging Technology 3rd Edition Jaypee Brothers Medical Publishers(P) Ltd. Ed-Gupta, Garg, Sandhu,2019

1. Imaging Optimization in Ultrasound- Rashmi Dixit, Anju Garg, Alpana Manchanda, Anjali Prakash.
2. Magnetic Resonance Instrumentation and MRI Safety Issues: An Update-Anjali Prakash, Jyoti Kumar, Sapna Singh
3. Imaging Optimization in Magnetic Resonance Imaging- Jyoti Kumar, Gaurav Pradhan, Rashmi Dixit, Anjali Prakash
4. Digital Radiography: An Update- Alpana Manchanda, Rashmi Dixit, Sapna Singh, Radhika Batra
5. Magnetic Resonance Contrast Media- Anju Garg, Radhika Batra, Alpana Manchanda
6. Iodinated Contrast Media: An Update (To Include Reactions and Management)- GS Pradhan, Swati Gupta, Jyoti Kumar, Anju Garg
7. Radiation Protection- Sapna Singh, Gaurav S Pradhan, Swati Gupta

Following chapters were contributed in the Text book of Diagnostic Radiology- Genitourinary Imaging 4th Edition Jaypee Brothers Medical Publishers(P) Ltd. Ed-Gupta, Garg, Sandhu, 2019

1. Imaging Techniques and Radiological Anatomy of the Upper Urinary Tract- Sapna Singh, Jyoti Kumar, Anjali Prakash
2. Renal Cystic Diseases- Jyoti Kumar, Anjali Prakash, Sapna Singh
3. Renal Neoplasms- Anjali Prakash, GS Pradhan, Rashmi Dixit
4. Imaging Technique and Radiological Anatomy of lower Urinary Tract- GS Pradhan
5. Imaging Techniques and Radiological Anatomy of Female Genital Tract- Swati Gupta, Sapna Singh, AnjuGarg, Satyam
6. Benign Adnexal Disease- Anju Garg, Alpana Manchanda, Radhika Batra
7. Benign Disease of the Uterus and Vagina- Rashmi Dixit, Anju Garg, Alpana Manchanda

8. Malignant Diseases of Uterus and Vagina: Alpana Manchanda, Anju Garg, G S Pradhan Female Infertility- Radhika Batra, Rashmi Dixit, Swati Gupta

RADIODIAGNOSIS (UCMS)

Major Activities and Achievements

UCMS provides graduate and postgraduate education to medical students. Two major postgraduate courses of this large centre of learning are MD in Radiology and M.Sc. (Medical Imaging Technology) Radiography from the Department of Radiology & Radiotherapy, Faculty of Medical Sciences, University of Delhi. One of its under graduate course is three years B.Sc. (Medical Technology) Radiography course. In the past 1½ years M.Sc. (MIT) Radiography students have been placed / recruited in reputed places like Railway Recruitment Board, JIPMER Pondicherry, AIIMS New Delhi, DSSSB Delhi and PGI Chandigarh. At least 05 B.Sc. (MTP Radiography students have got Govt. Jobs in various government and private establishments.

The associated hospital to this Medical College is the GTB Hospital. This government hospital is a large teaching university hospital having official bed strength of 1600 beds. However, the occupancy is most often much more than this. The prime reason is that it caters to a very large population of Delhi and district towns surrounding it. On average 1200 routine x-ray and 10-12 special investigations are done daily. The hospital has two multi slice CT scanner (64 slice & four slice), a modern Digital fluoroscopic machine, one digital radiography unit, X-ray units (Total 08), Four Ultrasound machines including 3D US and Doppler units with Tissue Harmonic imaging facility and 3T MR unit in pipe line.

Publications

- Sharma M, Rathi V, Gombar S and Upreti L. Lung ultrasonography in the diagnosis of childhood pneumonia. Indian J Chest Dis Allied Sci. 2019; 61:129-33
- Swaroop S, Bhatt S, Rawal R, Tandon A, Dangwal S. Tuberculosis a great masquerader; Unveiling rare sites of Musculoskeletal involvement through imaging- A Case series Journal: South African Journal of Radiology, 2020 ; <https://doi.org/10.4102/sajr.v24i1.1919>
- Tandon A, Khullar T, Maheshwari S, Bhatt S, Narang S."High Resolution Ultrasound in Sub-clinical Diabetic Neuropathy: A Potential Screening Tool". Ultrasound. Sage journals, 2020; <https://doi.org/10.1177%2F1742271X20958034>
- Rai S, Garg P K ,Bhatt S , Latha T K ,Verma A K,Banerjee B D, Singh M P,The diagnostic role of micro RNA 21 in patients with non-small cell lung cancer: an exploratory study". Lung India 2020; DOI:10.4103/lungindia.lungindia_100_20
- Chawla S, Bhatt S, Tandon A, Meena G, Dangwal S. Bilateral Hutch diverticula in an elderly male:

Revelation of an unknown past. South African Journal of Radiology, 2020

- Bhatt S, Malla D, Tandon A, Mukhija D, Arora V. Tubercular retropharyngeal abscess in association with aberrant retropharyngeal internal carotid arteries- A rare entity: Imaging diagnosis and a word of caution. Turk Arch of Otorhinolaryngol. 2019; DOI: 10.5152/tao.2018.3684
- Garg P, Sharma G, Shrestha S, Bhatt S. A Retroperitoneal Cystic Mass: A Diagnostic Challenge- Images for Surgeons. ANZ J Surgery. 2019. DOI: 10.1111/ans.14989

- Bagaria A, Batra Prerna, Bhatt S. Late recovery of phrenic nerve palsy in a neonate: A case report. Indian J Child Health. 2019; February 19.
- Bhatt S, Swarup MS, Tandon A, Khular T, Dangwal S. Multi-detector CT Urethrography Diagnosis of an Urethro-cutaneous fistula and Associated Urethral Stricture: An Un-conventional Imaging Style. Austin J Radiol-Vol. 6 Issue 1-2019, ISSN: 2473-0637, Published 2019
- Salhotra R, Monika Singh, Sethi AK, Bhatt S, Kayina CA. Confirmation of placement of endotracheal tube - comparison of Ultrasound Versus. Conventional methods - An Observational Study of three ultrasound methods. J Anaesthesiol Clin Pharmacol. 2019;35: 353-8.
- Tandon A, Khullar T, Bhatt S. Sonography in acute ocular pathology: A kaleidoscopic view. Emerg Radiol. 2019 Apr 26(2):241-248
- Singal A, Bhatt S. Venolymphatic Malformation of the Tongue and Response to Sclerotherapy Using Sodium Tetradecyl Sulfate. Journal of Cutaneous and Aesthetic Surgery | Volume XX | Issue XX | XXXX-XXXX 2019
- Bhatt S, Bhagat S, Tandon A and Bansal H. A Bizzare Foreign Body in Stomach. Austin J Radiol. 2019; 6(2): 1096. ISSN : 2473-0637
- Tandon A, Khullar T, Maheshwari S, Bhatt S, Narang S. "High Resolution Ultrasound in Sub-clinical Diabetic Neuropathy: A Potential Screening Tool". Ultrasound. 1-12; 2020. Doi 10.1177/1742271X20958034.
- Tandon A, Khullar T, Bhatt S. Sonography in acute ocular pathology: a kaleidoscopic view. Emerg Radiol. 2019 Apr;26(2):241-248.
- Bhatt S, Malla D, Tandon A, Mukhija D, Arora V. Tubercular retropharyngeal abscess in association with aberrant retropharyngeal internal carotid arteries- A rare entity: Imaging diagnosis and a word of caution. Turk Arch of Otorhinolaryngol. 2019; DOI: 10.5152/tao.2018.3684
- Bhatt S, Swarup MS, Tandon A, Khular T, Dangwal S. Multi-detector CT Urethrography Diagnosis of an Urethro-cutaneous fistula and Associated Urethral Stricture: An Un-conventional Imaging Style. Austin J Radiol-Vol. 6 Issue 1-2019. ISSN: 2473-0637, Published 21st March, 2019
- Bhatt S, Bhagat S, Tandon A and Bansal H. A Bizzare Foreign Body in Stomach. Austin J Radiol. 2019; 6(2): 1096. ISSN : 2473-0637
- Chanchal Kaushik , Inderjeet Singh Sandhu, A.K. Srivastava Evaluation of Patient Radiation Doses in Skull Radiography J. Multidiscip. Res. Healthcare. Vol. 5, No. 2, April 2019, pp.63–67

Research Projects

Dr. Anupama Tandon:

1. ICMR grant of Research Fellowship INR 5,40,800 per annum for 3 years for project titled “ To study the DNA damage and repair mechanism in the patients undergoing multidetector computed tomography (MDCT)” where Ms ShikhaSirohi is the SRF.
2. Award of ICMR Financial Support for the MD/MS/DM/MCh/MDS dissertation/thesis of Rs 50,000 for the December 2019 batch to PG candidate SagarNayak under guidance of Dr AnupamaTandon

Conferences Organized

American Association of Physicists in Medicine sponsored International Scientific Exchange Program cum workshop on Diagnostic Physics in collaboration with Association of Medical Physicists of India and International Organization for Medical Physics during December 16-19,2019

Dr. A.K. Srivastava - Programme organizer and coordinator

Dr. Shuchi Bhatt - Chairperson

Dr. Anupama Tandon - Co-Chairperson

Mr. Mohit Tyagi

Dr. Natasha Gupta

Seminars / Conference - Presentations (National / International)

Single line space between two entries(Please do not include if only attended)

Dr. Shuchi Bhatt

ECR-2019	Vienna, Austria	2019	Poster: MDCT in temporal bone pathologies
IRIA outreach program and CME on interventional radiology, 2019	Hotel Radisson Blu, Dwarka, New Delhi	2019	Invitation as Chairperson Participated as faculty/ chairperson
IREP (resident education program) organized by Delhi state chapter of IRIA, LHMC, DELHI	LHMC, New Delhi	2019	Participated as faculty/ chairperson.
Sharda neuro-imaging update 2019 CME program	SMS&R, Sharda university	2019	Participated as guest speaker/ chairperson/ delegate.
AAPM- International scientific exchange program (ISEP), 2019, International symposium on medical imaging physics and image guidance in radiotherapy.	MAMC, Delhi	2019	Theme: improving image quality & reducing patient dose Organizing chairperson.
INTERNATIONAL WOMEN'S DAY CELEBRATION 2020 Organized by IRIA, Delhi	IRIA house, New Delhi	2020	Certificate of appreciation
RSNA 2019 - 105th Scientific Assembly Annual Meeting	McCormick Place, Chicago, USA	2019	Poster presentation: High Resolution Ultrasound in Sub-clinical Diabetic Neuropathy: A Potential Screening Tool
European Congress of Radiology	Vienna, Austria	2019	Poster presentation: HRCT Temporal bone pathologies: A pictorial review.

Conference presentation:

International conference:

1. Poster presentation: High Resolution Ultrasound in Sub-clinical Diabetic Neuropathy: A Potential Screening Tool. Tamanna Khullar, Anupama Tandon, Siddharth Maheshwari, Shuchi Bhatt,

Shiva Narang. RSNA 2019 - 105th Scientific Assembly and Annual Meeting, December 1 to December 6, 2019 at McCormick Place, Chicago, USA

2. Poster presentation: HRCT Temporal bone pathologies: A pictorial review. Tandon A, Chawla S, Bhatt S, Meena G, Khullar T at European Congress of Radiology, Feb 27- March 3, Vienna, Austria.
3. Oral presentation: "Bubbles in the chest: Pediatric Imaging spectrum of cystic and cavitary pulmonary lesions" Tandon A, Bansal H. at 75th Korean Congress of radiology, Seoul 2019.
4. Poster presentation: "Opaque hemithorax in children: A systemic imaging approach" at Asian and Oceanian Society of Pediatric Radiology at Seoul, Sept 26 to 28, 2019.

RADIOLOGY (GIPMER)

Major activities and achievements

- Installation of new 3T MRI machine in October 2019
- M.D. Radiodiagnosis course started with four postgraduate students per year w.e.f. from May 2019

Faculty strength : 5

RADIOTHERAPY (LHMC)

Department of Radiation Oncology/ Radiotherapy

Major Activities and Achievements:

Establishment of Radiation Oncology block is ongoing and process of procurement of radiotherapy equipment is in an advanced stage. The department runs regular OPD services and also provides consultation for management of cancer patients to indoor patients in other departments. Two faculty members were appointed on contract basis in February 2020.

The department conducts regular teaching and academic activities in the form of weekly seminar presentations & journal clubs involving faculty and senior residents. Department is involved in teaching undergraduate MBBS students and MD students of other departments. Interdepartmental teaching activities and clinics are held regularly.

Publications:

- a. Gupta, A., Kumar, D., **Kaushal, V.**, Miriyala, R., Srinivasa, G. Y., Dey, T., Rai, B., Das, C. K., Srinivasan, R., Gupta, N., Prasad, G. R. V., Jain, V., Dey, P., Bagga, R., Kalra, J., Saha, S. C., Rajwanshi, A., Suri, V., & Ghoshal, S. (2020). Outcomes of Advanced Epithelial Ovarian Cancers Treated with Neoadjuvant Chemotherapy and Interval Debulking Surgery: An Audit from a Tertiary Care Referral Center in India. *Indian Journal of Gynecologic Oncology*, 18(2). <https://doi.org/10.1007/s40944-020-00391-x>

Faculty strength: 03 (Three)

RADIOTHERAPY (MAMC)

Major Activities and Achievements:

CT Simulator installed in the department

Multispecialty tumor board started that includes Department of Pathology, Department of Radiodiagnosis and other clinical Departments concerned. Musculoskeletal tumor board started in coordination with Department of Orthopedics. Gastrointestinal tumor board in coordination with department of gastroenterology and gastrosurgery, GBPH.

Multiple anticancer drugs related trials on going in the department.

Honours/ Distinctions-

Dr. K. Singh and Dr. A.K. Rathi felicitated with lifetime achievement awards by Association of Radiation Oncologists of India (AROI), north zone.

Publications

- a) Roy S, Subramani V, Singh K, Rathi AK, Savita A, Aditi A.. Study of the effects of dwell time deviation constraints on inverse planning simulated annealing optimized plans of intracavitary brachytherapy of cancer cervix. *J Cancer Res Ther*. 2019 Oct-Dec;15(6):1370-1376.
- b) Savita Arora, Neha Sharma, Arun Kumar Rathi, Kishore Singh, Kavita Sehrawat. Complete androgen insensitivity syndrome with intra-abdominal seminoma in a phenotypic female: A rare presentation. *J Can Res Ther* [Epub ahead of print] [cited 2020 Jan 28].
- c) R. Kulshrestha, A.K. Rathi, S. Kapoor, K. Singh, S. Arora. Radiation induced chromosomal aberrations As Biological dosimeter to assess dose after in vivo Radiation Exposure of Head and neck cancer patients undergoing radiation Therapy: A quantitative Analysis. Published in *International Journal of Radiation oncology* in sept, 2019.
- d) Mayank Aggarwal, Archana Aggarwal, Kishore Singh, Savita Arora, Arun Kumar Rathi. Pattern of clinical presentation and demographic profile of patients diagnosed with periampullary carcinoma in a tertiary care centre of north India. *Indian Journal of Applied Research*; April, 2019; 9 (4): 53-54.
- e) Mayank Aggarwal, Archana Aggarwal, Kishore Singh, Savita Arora, Arun Kumar Rathi. Clinical and demographic presentation in patients diagnosed with pancreatic cancer at a tertiary care centre of north India. *International Journal of Scientific Research Indian*. April, 2019; 8 (4): 50-51.
- f) Mayank Aggarwal, Archana Aggarwal, Savita Arora, Arun Kumar Rathi, Kishore Singh. Demographic and Clinicopathological profile of gastrointestinal stromal tumor from a tertiary care center of north India: An observational study. *J Can Res Ther* [Ahead of print]; DOI: 10.4103/jcr.JCRT_322_18.
- g) Printed abstracts to AROICON 2019
 - a. N Adhikari, A Srivastava, D Raj Sonkar, K Singh. Dosimetric Comparison of geometric optimization (GO) versus Inverse Planning Simulated Annealing (IPSA) in patients of locally advanced carcinoma cervix treated with interstitial brachytherapy.
 - b. Deepak Raj Sonkar, Narayan Adhikari, Anurita Srivastava, Kishore Singh. Christie regimen in advanced head and neck cancer: boon or bane?

Journals-

Dr K. Singh is *'Editor in Chief'* of Journal of Cancer research and Therapeutics, official Journal of Association of Radiation Oncologists of India (AROI).

Dr. A. K. Rathi Nominated as Executive editor of JCRT.

Research Project: i) Dr. Anurita Srivastava

Longitudinal analysis with SCC antigen to predict treatment response in oesophageal cancer

Conferences Organized

- a. International Symposium on Medical Imaging Physics and Image Guidance in Radiotherapy organized during December 16-19 .2019 at Maulana Azad Medical College New Delhi.

Faculty Strength- 08

Other Significant Information

- I. Dr. K. Singh won State Award for meritorious service by Department of Health and Family Welfare, GNCT.
- II. Dr. Savita Arora was awarded Fellowship in Brachytherapy in gynecologic cancer at Christie hospital, Manchester, United Kingdom by Association of Radiation Oncologist of India. (May/June 2019)

RADIOLOGY ARMY HOSPITAL (R&R)

Major Activities and Achievements

The Department of Radiology provides state of the art radiological facilities to the institution. There has been installation of a portable Digital Radiography machine and three Computed Radiography systems in the department. There has been digitisation of reporting of X-rays, special investigations and legally critical ultrasonography reports using a dedicated radiology reporting module software developed in-house with no cost to exchequer. The department prepared itself well in time for handling the COVID-19 Pandemic with SOPs in place for each sub-units and modalities. It introduced dedicated online monitoring and SMS based patient information of appointment for various modalities.

Awards and Honours

1. Dr KPS Senger : ANBIA GOLD MEDAL for standing first amongst all specialities of medicine and surgery in india in DNB. Awarded on 05 Sept 2019.
2. Dr Hitesh Sinduriyan : Awarded 1st prize for best Scientific paper presentation in oncoimaging at 73rd Annual conference of Indian radiological and imaging Association 2020 Asian radiology forum January 2020 Gandhinagar.

Publications in Journals

1. Imaging Features in a case of Partial Duplication of Right Sided IVC with Ureter Coursing Through Its Split. Giriraj Singh, Roma Rai. IJAR Volume-9 | Issue-6 | Jun-2019 pgs 1-2
2. KP Shijith, Sood M, Sud AD, Ghai A. Is CT scan a predictor of instability in recurrent dislocation shoulder? Chinese Journal of Traumatology 22 (2019) 177-181

3. Agarwal M, Tewari R, KP Shijith, Guleria P, Chatterjee T. Congenital infantile myofibroma; case report and review of literature. *Human Pathology : Case reports* 2020; <https://doi.org/10.1016/j.ehpc.2020.200363>
4. Maurya V, Ravikumar R, Gopinath M, Ram B. Ultrasound in acute viral hepatitis: Does it have any role?. *Med J DY PatilVidyapeeth* 2019;12:335-9
5. Maurya V, Gopinath M, Sarkar K, Aggarwal P. Imaging in a case of chyluria presenting as hematuria. *Med J DY PatilVidyapeeth* 2020;13:86-8.
6. Ram B, Sharma P, Gopinath M, Singh SK. Extraskelatal osteosarcoma of colon mimicking carcinoma of colon – A rare entity. *Indian J MusculoskeletRadiol* 2020;2(1):73-6.
7. Manish Sharma, Ankit Mathur. Spinal Dural Arterio-venous Fistula induced Myelopathy: Rare and commonly missed but treatable nevertheless. *Indian Journal NeuroSurg.* 2019;8:108-112
8. Priyanka Singh, Vasu Vardhan, Manu Chopra, Ankit Mathur. Rare cause of pulmonary consolidation in a malignancy case. *Lung India* 2019;36:447-8
9. Senger KPS, Anand AK, Singh A, Sharma V, Patiyal S. Ocular doppler imaging: opening a new window in decoding glaucoma. *Int J Res Med Sci* 2019;7:3417-20.
10. Bhattacharjee S, Malik V, Mishra A, Pathak K, Jain N, Bhanu K U. Renal artery embolization: A minimally invasive technique in the treatment of acute intractable iatrogenic hematuria – Experience at a tertiary care center. *Med J DY Patil Vidyapeeth* 2020;13:210-4
11. Dhanalakshmi B. Vol 8, Issue XII, Dec 2019, Paripex Indian Journal Of Research. Imaging of SI joint: Modified CT protocol of sacroiliac joint to minimise radiation dose in diagnosis of sacroiliitis.
12. Dhanalakshmi B. International Journal Of Scientific Research. Volume-9, Issue-1, January-2020, DOI : 10.36106/ijsr. Experience on evaluation and correlation of suspicious breast lesion on screening digital mammography and ultrasound with histopathology and MRI

Editorial board of Journals

1. Dr Griraj Singh : MJAFI, IJRI
2. Dr Atul Mishra : Reviewer in national and international journals (*Neuroradiology journal, Acta Radiologica, IJRI, MJAFI*)
3. Dr Ankit Mathur : Reviewer in MJAFI

Research projects undertaken

1. Dr Atul Mishra : Completed AFMRC Project ‘Diagnostic utility of advanced MRI techniques in pre-operative grading of gliomas with focus on relative sensitivity, specificity and predictive value of MR spectroscopy and MR T2* Perfusion as compared to histopathology’
2. Dr Shijith K P: Completed AFMRC project - Evaluation Of Regional DTI-Derived Tensor Metrics In Intracranial Gliomas
3. Dr Ankit Mathur : AFMRC Project - A study to determine the sensitivity of 256 slice computerized tomography angiography in the detection and characterization of ruptured intracranial aneurysms.

4. Dr KPS Senger : AFMRC Project - Multiparametric Prostatic MRI using high diffusion values for early diagnosis of prostatic cancer as compared to clinical and lab parameters:

SURGERY (LHMC)

Major Activities And Achievements:

Department of Surgery organised 2nd Surgery PG Clinical Update which received an overwhelming response from all over India. A Monthly Meeting of Delhi State Chapter was organised in Sept'19 which was attended by around 100 delegates. A "Surgical Skill course" for hands on training of MS students was conducted in Oct'19. Surgery Department conducted Pre-Hospital Trauma Training Courses and majority of our trained students were employed in CAT Ambulances, playing an important role in prehospital care of trauma victims. More than 100 Bariatric procedures have been successfully performed with excellent outcome. During COVID crisis, we have been organising Online theory and clinical classes for UGs and PGs on Microsoft Teams platform. Faculty & Resident doctors from the Department are regularly doing duties in Covid wards. Endourological Procedures like TURP (for BHP), TURBT (bladder tumours), URS were done routinely. Vascular Surgery procedures—A-V fistula for CRF patients (awaiting transplant/undergoing dialysis) were routinely performed. Department has an active Oncosurgical Programme delivering comprehensive surgical & medical management of Gastrointestinal, Urological, Head& Neck and Breast cancers. For Diagnostic and Research purposes, Impedance pH monitoring, Urodynamic studies and Esophageal Manometry is done in the Department itself. Advance laparoscopic surgeries using high definition camera were routinely performed. Establishing Robotic Surgery in the Department is in the pipeline and our future area of thrust.

HONOURS / DISTINCTIONS

Dr Romesh Lal was appointed as a panel member in NBE Teaching Programme and has participated in various academic activities organised by NBE.

Dr Romesh Lal was appointed as an organizing Chairman of AMASICON 2020 to be organized in Delhi by one of the largest laparoscopic association AMASI in India, being co-hosted by LHMC.

Dr Romesh Lal: Invited as faculty for Cadaveric workshop held at DDU, New Delhi on 13th Nov'2019 at the Annual SURGICON Conference of Delhi State Chapter of ASI.

Dr Anup Mohta : Examiner for MS surgery at LHMC (Annual & Supplementary)

Dr. Anup Mohta : Appointed member of Pre-entry level certification of NABH .

Dr Gyan Saurabh: Invited as faculty for Cadaveric workshop held at AIIMS, New Delhi on 13th Nov'2019 and was part of the team which trained 14 surgeons in various bariatric surgery procedures - LSG, OAGB and RYGB.

Dr. Gyan Saurabh: Invited as faculty for the Bariatric Cadaveric workshop held at AIIMS, New Delhi in Sept'2019.

Dr. Gyan Saurabh and Dr Kusum Meena: Attended workshop on CISP (Curriculum Implementation Support Programme) from 29th April to 1st may 2019 at LHMC new Delhi.

Dr Kusum Meena : Won second prize in PAN&PAD creative writing competition during SURGICON 2019 An annual national conference of ASI Delhi State Chapter from 22-24 november 2019.

Dr Shahiq Ahmed, Post graduate student under Dr Romesh Lal got 1st prize in paper presentation at ENDOLAP 2019 organised by MAMC & SELSI (Delhi State Chapter).

Dr Pute Losu, post graduate student who worked under Dr Romesh Lal got 1st prize in competitive paper presentation in SELSICON

Dr Pute Losu, post graduate student who worked under Dr Romesh Lal got 2nd prize in poster presentation at ASICON 2019, Bhubaneswar

Dr Pute Losu, post graduate student who worked under Dr Romesh Lal got 3rd prize in PG paper presentation at ASICON 2019, Bhubaneswar.

Dr. Saurabh Girotra, PG of Dr. Kusum Meena got 3rd prize at poster presentation at SELSICON, MAMC New Delhi

Dr. Sanjay Meena PG of Dr Deborshi Sharma got 3rd prize for paper presentation at Annual ASICON at Bhuvneshwar.

Publications:

1. Sinha P, Singh L, Sengar M, **Mohta A**. Retinal anlage tumour of epididymis: a diagnostic challenge on cytology. *Acta Cytol* 2019; 63:73-74.
2. Gastric tuberculosis. Chaudhary P, Khan AQ, Lal R, Bhadana U, *The Indian Journal of Tuberculosis*, 10 Nov 2018, 66(3):411-417
3. Tuberculous cervical lymphadenitis: A retrospective cohort study of 632 cases. Chaudhary P, Gupta A, Loso P, Lal R. *International Journal of surgery and Medicine*. 2020;12 (accepted for publication)
4. Splenic tuberculosis. Chaudhary P, Borgharia S, Talwar N, Lal R. *Indian Journal of Tuberculosis*. 2020; 32 (accepted for publication)
5. Tyagi A, Saha S, Andley M, Talwar N. Urodynamic Profile in Patients with Benign Prostatic Hyperplasia (BPH) with or Without Inguinal Hernia. *International Journal of Science and Research (IJSR)* 2019; 8: 736 - 741.
6. Saha, S., Vats, M., Gupta, R. *et al*. Can Native Arteriovenous Fistula Be Safely Made by Trainees? Comparison of Results of Native Arteriovenous Fistula for Vascular Access Made by Trainees with that by Consultant. *Indian J Surg* (2019).

Seminars Organized:

Sl No	Faculty Member	Organizers Name	Venue & Date
1	Dr. Shaji Thomas	Organizing Chairman , Monthly meet , Delhi State Chapter , ASI	LHMC Sept'2019

Conferences Organized:

SI No	Faculty Member	Organizers Name	Venue & Date
1.	Dr. Shaji Thomas (Organizing Chairman)	Department of Surgery, LHMC	Monthly meet, Delhi State Chapter, ASI, LHMC Sept'2019
2.	All faculty members	Department of Surgery LHMC	LHMC Surgery PG Clinical Update 30 th Jan'20 -2 nd Feb 2020
3	Dr. Sudipta Saha and other Faculty members	Department of Surgery , LHMC	Organized and conducted Hands on Workshop on suturing and knotting for Post graduates , Oct'2019

Seminar / Conference Presentation:

SI No	Faculty Member	Role / Topic	Organiser	Name of Conference / Venue / Date
International conference				
1	Dr. Sudipta Saha	Oral paper presentation learning curve of surgical trainees for performing native arteriovenous fistula for vascular access for hemodialysis	International society of Surgeons	World Congress of Surgery WCS 2019 Krakow Poland 11- 15 August 2019

Faculty Strength : 26

SURGERY (UCMS)

Major Activities and Achievements

- Despite working with severe shortage of teaching staff in the department [7 out of sanctioned 19], the department has fulfilled its responsibility of undergraduate and postgraduate teaching and training and patient care.
- The department has academic contribution in the form of published research papers [14].
- The department has added the following equipment to improve the training and patient care - Laparoscopy sets [04]; Urology Set [01]; Transport ventilators [12]; AED [08].
- Dr. Nishtha, 2nd Year PG student was awarded 2nd position in clinical case presentation, 2nd position in oral paper presentation, 2nd position for overall best performance and bestowed with resident fellowship of American College of Surgeons in the Annual Conference of the American College of Surgeons of India Chapter in January, 2020. She was also declared the top scholar in SCOPE, 2019 in August conducted by the Delhi State Chapter of ASI.

Honours/Distinctions

- Dr. Sanjay Gupta nominated as a member to the Medical Equipment and Hospital Planning Department MHD 10, Bureau of Indian Standards.
- Dr. Navneet Kaur elected EC member of ABSI from the North Zone for the term 2019-2021.

Publications

- Aggarwal, D., & Agrawal, V. (2020). EVALUATION OF SERUM FERRITIN LEVEL AND IRON REGULATORY PROTEIN-1 GENE EXPRESSION IN PATIENTS WITH CHOLELITHIASIS. *Global Journal For Research Analysis*, 8(12).
- Aggarwal, N., Jariwala, P., Kamal, S., & Kaur, N. (2019). Avulsion injuries of right hemidiaphragm: Report of two case scenarios with different outcomes. *Nigerian Journal of Surgery: Official Publication of the Nigerian Surgical Research Society*, 25(2), 223.
- Agrawal, V., & Gupta, S. (2020). Chronic Mesentero-Axial Gastric Volvulus Associated with a Parahiatal Diaphragmatic Hernia: A Rare Entity. *Indian Journal of Surgery*, 82(4), 731-732.
- Agrawal, V., Khullar, R., & Jha, A. K. (2020). Assessment of posterior urethra in benign prostatic hyperplasia and after its surgery. *Urology Annals*, 12(1), 63.
- Ghanshela, R., Banerjee, B. D., Siddarth, M., & Gupta, S. (2020). DNA repair gene polymorphism (XPA and XPG) and risk of urinary bladder cancer in North-Indian population. *Meta Gene*, 24, 100676.
- Kaur, N., Swain, S. K., Banerjee, B. D., Sharma, T., & Krishnalata, T. (2019). Organochlorine pesticide exposure as a risk factor for breast cancer in young Indian women: A case-control study. *South Asian Journal of Cancer*, 8(4), 212.
- Kaur, N., & Jariwala, P. (2020). A descriptive study on arm/shoulder problems and its correlation with quality of mastectomy scar. *The Breast Journal*, 26(3), 574-575.
- Kaur, N., & Jain, A. (2018). Delivering Survivorship Care to Women in Low-Resource Settings: A Report from India.
- Singh, I., Aravind, T. K., & Panesar, N. (2020). Perineal Ectopic Testis (PET): Ignorance is “Not” a Bliss.
- Singh, I., Aravind, T. K., Behera, D. P., & Panesar, N. (2020). Laparoscopic ureterolithotomy for the management of distal ureteric giant calculi in the endourology era—case report & Brief review of literature. *European Journal of Medical Case Reports*, 4(8), 259-262.
- Singh, I., Murtaza, S. M., Kaur, I. S., & Agrawal, V. (2019). Curative Efficacy of Fosfomycin Tromethamine Versus Ciprofloxacin in the Initial Therapy of Uncomplicated UTI—a Prospective Open-Label Randomised Controlled Clinical Study. *Indian Journal of Surgery*, 1-7.
- Singh, I., Shah, S., Gupta, S., & Singh, N. P. (2019). Efficacy of intraoperative renal stone culture in predicting postpercutaneous nephrolithotomy urosepsis/systemic inflammatory response syndrome: a prospective analytical study with review of literature. *Journal of endourology*, 33(2), 84-92.
- Singh, I., Tk, A., & Gupta, S. (2020). Efficacy and safety of tadalafil vs tamsulosin in lower urinary tract symptoms (LUTS) as a result of benign prostate hyperplasia (BPH)—open label randomised controlled study. *International Journal of Clinical Practice*, 74(8), e13530.

- Singh, I., Yadav, O. K., & Gupta, S. (2019). Efficacy of intercostal nerve block with 0.25% bupivacaine in percutaneous nephrolithotomy: A prospective randomized clinical trial. *Urology annals*, 11(4), 363.

TB AND CHEST DISEASES (LHMC)

Major Activities and Achievements

Representations on expert bodies/committees

Dr. Tanmaya Talukdar

1. Chairpers on of the new Delhi District Drug Resistant TB Committee under the RntCp.
2. MemberofthetechnicalexpertGrouponAirpollutionandHumanHealthatthenationalCenterforDisease Control, newDelhi.
3. Chairperson of the State operational Research Committee onRntCp.
4. MemberofDistrictLevelCo-ordinationCommitteeofNationalTobaccoControlProgramand NodalOfficer for tobacco Control at SSKH.
5. Subject expert in pulmonary Medicine for Selection of Faculty at the JIpMeR, puducherry, Vallabhbhai patelChest Institute, Delhi, neIGRIHMS, Shillongand Government Institute of Medical Sciences,Greaternoida.
6. Member of the Committee framing the guidelines for establishing tobacco Cessation Clinics, national tobacco Controlprogram.
7. Appeared al expert on loksabhatV, and All IndiaRadio.

Dr. Pushpendra Kumar Verma

1. MemberoftheCentralTeamdeputedforH5N1InfluenzatoJharkhandinfeb2019.
2. Member of pG ethics and Research Committee for the Clinical Specialties, AIIMS, newDelhi.
3. Appeared as an expert on DD national.

Books/chapters contributed

1. Singh AK Verma p Hazards to Respiratory System. In Anupam prakash, talukdar t., tobacco and Related Health Hazards. 1st edition. new Delhi: Indian College of physicians, evangel publications; 2019p48-55.
2. SinghAK.BasicsofcomorbiditiesinCopD.InAKVerma,CopDBasicsandManagement.1stedition.newDelhi: CBS publications; 2019p67-75.
3. Singh AK. Management of co morbidities in CopD. In AK Verma, CopD Basics and Management. 1st edition. new Delhi: CBS publications; 2019p76-81.
4. talukdar t: tobacco and Related Health Hazards. 1st edition. new Delhi: Indian College of physicians, evangel publications;2019.

Publications: Total Number_2___ (NATIONAL & INTERNATIONAL)

Journals Published/ Edited

43. SinghAKasco-author“NationalTechnicalGuidelinesformanagementofH1N1seasonalinfluenza 2019”. national Centre of Disease Control, Ministry of Health and Family welfare, Government of India.
44. SarohaD,GargD,SinghAK,DhamijaRK,IrreversibleneuropathyinXDRtB:Anunfortunateclinicalconundrum Indian Journal of tuberculosis, 2019.Doi.org/10.1016/j.ijtd. 2019.11.012.

Conferences organized:

s. no.	event organized by the department	venue & date
1	CME on “newer modalities in managing drug resistant and drug sensitive tB”	Convocation Hall, IHMC, 13th Dec 2019
2	Symposium on Air pollution	Meu Hall, IHMC, 07th June, 2019
3	tobaccoCessationWorkshopforSecurityGuardsofIHMC	Meu Hall, IHMC, 04th Feb 2019
4	Awareness Drive on Harm of tobacco use through patient contact program and nukkadnatak	Adjacent to SSKH opD 4th June 2019 and 23rd oct 2019
5	Multiple public Awareness programs to promote disease prevention on “Cough Hygiene, tB prevention and Air pollution”	organized at SSKH opD Block

Seminars/Conferences Presentations (National/ International):

s. no.	name	role	organiser	name, venue & date
1	Dr. tanmaya talukdar	talk on occupational Asthma	Deptt of Community Medicine, IHMC	International Conference on occupational and environmental Health,IHMC 16th Feb2020
2	Dr. tanmaya talukdar	Delivered the weekly health awareness talk on “prevention of Common Respiratory Ailments”	DGHS, Government of India	nirman Bhawan, new Delhi 19th Dec 2019
3	Dr. tanmaya talukdar	Faculty in Workshop on pulmonary Function test	national Institute of tB and RD Delhi	Conference of the Indian College of Allergy, Asthma and Applied Immunology. nItRD, Delhi 7th nov 2019
4	Dr. pushendra Kumar Verma	Chaired the Session at Conference of the Indian College of Allergy, Asthma and Applied Immunology	national Institute of tB and RD Delhi	Conference of the Indian College of Allergy, Asthma and Applied Immunology. nItRD, Delhi 8th nov 2019
5	Dr. tanmaya talukdar	underwent training on the Revised programatic Management of Drug	RntCp	OfficeoftheStateProgram Office,RNTCP

		Resistant tB		27th -29th Aug 2019
6	Dr. tanmaya talukdar	Zonal task Force Workshop, RntCp	RntCp	AIIMS, Rhishikesh 28th -29th Mar 2019
7	Dr. Ashok K Singh	Chaired Session on “Revolution in advanced lung management”	American College of Chest physicians	new Delhi 20th Aug2019
8	Dr. Ashok K Singh and Dr. tanmaya talukdar	online ACCp course on obstructive Airway Diseases	Ministry of Health and Family Welfare, Govt of Delhi	Completed online course 2nd Dec 2019
9	Dr. tanmaya talukdar	Chaired the meet on Delhi State operational Research Committee	RntCp, Delhi	new Delhi tB Centre, 25th Feb 2019
10	Dr. pushpendra Kumar Verma	participated as Delegate	Indian Sleep Disorder Association	SleepCon 2019 ISDA, Delhi 19th- 21st Apr 2019
11	Dr. pushpendra Kumar Verma	participated as Delegate	pulmocrit 2019	Department of pulmonary Medicine AIIMS, Delhi 28th Feb and 3rd Mar 2019

Faculty Strength: 3

FACULTY OF MUSIC AND FINE ARTS

DEPARTMENT OF MUSIC

Major Activities and Achievements:-

The Department organized various seminars, workshops, professional development activities during the relevant academic year. Thereafter, the Department organised various events throughout the year, such as the annual Festival of Music – “Malhar Utsav”, Interactive Session with the Academic Delegation from Leeds University, United Kingdom for collaboration, Lecture Series by Dr. Luis Alberto De La Calle, Professor of Music, University of Geneva, Switzerland, workshop on “Sadguru Tyagaraja Aradhana” - Group rendition of Ghanaraga Pancharatna Kritis by Teachers and Students of Karnatak Music conducted by Prof. P.B. Kannakumar, and ‘Meeras-e-Kashmir- Heritage of Kashmir’. The Department also organised National Seminar on “Aesthetic manifestations of raga and tala in Indian classical Music- The contemporary Scenario”. The Department in collaboration with CPDHE organised 15 days Refresher Course in Music from 31.10.2019 to 14.11.19. On 30th January 2020, the Department of Music organised “Basant Panchmi” Festival, which was inaugurated by the Registrar, University of Delhi & the Guest of Honour, Pt. Debu Chaudhuri, Eminent Sitar Exponent, Padma Bhushan Awardee.

Award/Honours

Guru Samman” was awarded to Prof. T.V. Manikandan from Society for Upliftment of National Arts of India (SUNAINA), Delhi on November 8, 2019.

Publications:

Bhalla, Deepti (2019). *Sangit Parikat*. Delhi: Bhartiya Vidya Bhawan. ISBN- 978-81-7276-566-8.

Mahajan, Anupam (2020). *Vadya Sangeet Evam Raag Nirupan*. New Delhi: Sanjay Prakashan, Vol.1. ISBN-978-81-946083-0-1.

Mahajan, Anupam (2020). *Raga Delineation in Instrumental Music*. New Delhi: Sanjay Prakashan, Vol.1. ISBN-978-93-88107-97-6.

Manikandan, T.V. (September 2019). Tambura - the integral instrument of Indian classical music, *The Silk-Road Universities Network Web Magazine*, 2, 50 -56. ISSN- 2671-4418

Manikandan, T.V. (November 2019). Koteeswara Iyer- His life and contribution [1869-1938], 18 -23, in Dr. Mini N. (edt.) *Post Trinity Composers of Carnatic Music*. New Delhi: Akansha Publishing House. ISBN - 978-81-8370-556-1.

Journal published by the Department : 1

Vageeshwari (October 2019 issue) has been published.

Number of Department teachers serving as Editors/Members of the Editorial Board: 9

Editor in Chief - Prof. Deepti Omchery Bhalla

- Prof. T.V. Manikandan

Editorial Board Member - Prof. T.V. Manikandan

Prof. Shailendra Goswami

Dr. Ananya Kumar Dey

Dr. Rajpal Singh

Dr. Ajay Kumar

Dr. Vineet Goswami

Ms. Rindana Rahasya

Dr. Prasanth G. Pai

Assistant Editors Ms. Rindana Rahasya

Ms. Sowmya G.

Mr. Bhavik Mankad

Conference Organised:

The Malhar Utsav - an annual two day festival of Indian classical music, organised by the Department each year in the months of August-September, celebrates the joy and spirit of the Rainy season, through vocal and instrumental renditions by Veteran Musicians of the many varieties of the "Malhar" raga. This year, the Malhar Utsav was organised at the Sumati Sabhagar in the Department on 29 & 30 August, 2019. It was inaugurated by Prof. Yogesh Tyagi, Vice Chancellor, University of Delhi & the Guest of Honour by Prof. Ritwik Sanyal, Eminent Dhrupad Exponent, Banaras & Sangeet Natak Akademi Awardee, Delhi.

On the 29th August 2019, the festival commenced with Mangal Dhvani by the Sargam Choir: A Karnatak Music presentation by the students of the Department, conducted by Prof. P.B. Kannakumar. The programme included a welcome address by Prof. Deepti Omchery Bhalla, Dean & Head, Faculty of Music & Fine Arts, a Veena Recital by Vidwan S. Sundar (Chennai) accompanied by Vidwan V.S.K. Annadurai on Violin, Vidwan N. Padmanabhan on Mridangam. This was followed by a Hindustani Vocal Recital (Khayal) by Vidushi Apoorva Gokhale (Mumbai) accompanied by Shri Sukanta Bajpayee on Tabla & Dr. Vinay Mishra on Harmonium.

On 30th August 2019, the festival commenced with Saraswati Vandana by the Sargam Choir: A Hindustani Music presentation by the students of the Department, conducted by Dr. Rajpal Singh. The programme included a Karnatak Veena Ricital by Vidushi Prof. Radha Venkatachalam (Delhi) accompanied by Vidwan V.S.K. Annadurai on Violin, Vidwan N. Padmanabhan on Mridangam. This was followed by Tabla Recital by Pt. Mithilesh Jha (Delhi) accompanied by Dr. Vinay Mishra on Harmonium and a Sitar Recital by Pt. Ashim Chaudhary (Kolkata) accompanied by Pt. Ashis Sengupta of Department on Tabla. Vote of thanks was presented by Prof. Ojesh Pratap Singh.

The Department celebrated the International Yoga Day by holding a workshop on Yoga on 21st June 2019.

The Department organised an Interactive Session with the Academic Delegation that came from Leeds University, United Kingdom for collaboration in the field of Music, on 25th September, 2019.

The Department organised a Lecture Series by Dr. Luis Alberto De La Calle, Professor of Music, University of Geneva, Switzerland at Sumati Sabhagar, Department of Music, on 21st October, 2019.

The Department organised National Seminar on 'Aesthetic manifestations of raga and tala in Indian classical Music- The contemporary Scenario' at Sir Shankar Lal Hall, University of Delhi on 22nd & 23rd October, 2019.

The Department of Music, with the help CPDHE, DU organised 15 days Refresher Course in Music at Sumati Sabhagar, Department of Music from 31.10.2019 to 14.11.19.

The Department organised "Basant Panchmi" Festival which was inaugurated by Prof. T.K. Das, Registrar, University of Delhi & the Guest of Honour, Pt. Debu Chaudhuri, Eminent Sitar Exponent, Padma Bhushan Awardee, Delhi.

The Department organised a workshop on "Sadguru Tyagaraja Aradhana" - Group rendition of Ghanaraga Pancharatna Kritis by Teachers and Students of Karnatak Music conducted by Prof. P.B. Kannakumar on 13th February, 2020.

University of Delhi along with the Department of Music organised "Meeras-e-Kashmir-Heritage of Kashmir" function at Sir Shankar Lal Hall, University of Delhi on 18th February 2020.

Number of Ph.D. /M.Phil. Awarded:

Ph.D. - 10

M.Phil. – 18

Faculty Strength:

Sanctioned strength: 41

Total teachers working: 28

Professor:	10
Associate Professor:	0
Assistant Professor:	6
Asstt. Professor (ad-hoc):	6
Guest lecturer:	6

Other significant information

Prof. Deepti Omchery Bhalla became the Member of the Advisory Board – IIM, Indore in 2019.

Prof. T.V. Manikandan became the Member of Board of Studies for Karnatak Music in Mahatma Gandhi Institute, University of Mauritius, Moka, Mauritius in June 2019 and also Chaired Special Board of Studies of BPA at Pondicherry University on 11/10/2019.

FACULTY OF SCIENCE

DEPARTMENT OF ANTHROPOLOGY

1. Major Activities and Achievements

The Department organized a major international conference on Anthropology of Food and Health in the month of February 2020. Eminent scholars from various organizations spoke on pertinent issues. The Head of Department Prof. P.C. Joshi was awarded the prestigious S.C.Dube Oration Award 2020 and Dr. Manoj K. Singh, a faculty member was elected as President of Section ‘Anthropological and Behavioural Sciences’ in the 108th Session of the Indian Science Congress. The faculty members remained busy throughout the academic session organizing seminars, conferences, special lectures besides usual academic responsibilities. This session also saw a collaboration with IIT GandhiNagar for a Fall school on linguistic Anthropology. This endeavour seeks to inspire the resurgence of linguistic anthropology which has become marginalised over the years.

2. Honours/Distinctions

- Prof. P.C. Joshi was awarded with the prestigious **S.C. Dube Oration Award** 2020 at the INCAA annual Meet Kolkata, February 22, 2020.
- Prof. P. C. Joshi was nominated as member of Board of Studies in Department of Anthropology, School of Human Sciences, Sikkim University, Gangtok for the years 2020-2023.
- Dr. Manoj Kumar Singh was elected as President of Section ‘Anthropological and Behavioural Sciences’ for 108th Session of the Indian Science Congress.

3. Publications

- Anand K.G.S. Wahengbam, Khushbu Kumari, Kallur N. Saraswathy, Benrithung Murry. 2019. A case of hemoglobin J-Meerut detected from Gujarat, India. *Egypt J Haematol* 44:193–194.
- Biswas, Amitabh, Ali Raza, Soumi Das, Mitali Kapoor, Rijith Jayarajan, Ankit Verma, Karuthedath Vellarikkal Shamsudheen, Benrithung Murry, Sandeep Seth, Balram Bhargava, Vinod Scaria, Sridhar

Sivasubbu, Vadlamudi Raghavendra Rao. 2019. Loss of function mutation in the P2X7, a ligand-gated ion channel gene associated with hypertrophic cardiomyopathy. *Springer Nature*. <https://doi.org/10.1007/s11302-019-09660-7>. 2.

- Chattopadhyaya, Indrani 2019, Some aspects of Prehistoric Adaptations in the Vindhyas and the Central Ganga Valley, India'. *Journal of Technology and Innovative Research*, Volume 6, Issue 5, ISSN: 2349-5162.
- Chhungi, Varhlun, K. N. Saraswathy, and Naorem Kiranmala Devi. 2019. "CBS 844ins68, MTR A2756G and MTHFR C677T gene polymorphisms in hyperhomocysteinemia: A study among a non-tribal population group with East Asian ancestry (India)." *Gene Reports*: 100436.
- Chhungi, Varhlun, Somorjit Singh Ningombam, Suniti Yadav, Huidrom Suraj Singh, Naorem Kiranmala Devi, Shivani Chandel, Prakash Ranjan Mondal, Mohinder Pal Sachdeva, and Kallur Nava Saraswathy. 2019. "Prevalence of cardiovascular risk factors among tribal and non-tribal populations with East Asian Ancestry from North East India." *American Journal of Human Biology*: e23263.
- Das, S., Chandel, S. 2019. "The age old tradition of hookah smoking and its association with geriatric anaemia in rural women of North India". *Research Journal of Humanities and Social Sciences*. 10 (2): 487-494.
- Feroz N, Devi, K. S., Gupta, U., Dhall, M., Tyagi, R., & Kapoor, S. 2019. Association of adiposity markers with Uncoupling Protein 1 3826 AG genotype. *Meta Gene*, 22. <https://doi.org/10.1016/j.mgene.2019.100601>.
- Gupta V, Saxena R, Walia GK, Aggarwal T, Vats H, Dunn W, Relton C, Sovio U, Papageorghiou A, Smith GD, Khadgawat R and Sachdeva MP. 2019. Gestational route to healthy birth (GaRBH): protocol for an Indian prospective cohort. *BMJ Open* 2019;9:e025395. doi: 10.1136/bmjopen-2018-025395.
- Joshi, P.C. 2019. "Cultural Diversity of India". Guest Editor for Special Issue of *NAM Today* journal. Vol. LVXL, No.6.
- Joshi, P. C. 2019. Editorial. *NAM Today*. Inner Cover Page. Vol. LVXL, No.6.
- Joshi, P. C. 2019. Cultural Diversity of India. *NAM Today*. LVXL,6: 2-5.
- Joshi, P.C. 2019. 'Manav Adhkar, VanyajeevanevamParyavaranSanrakshan'. In Farhad Mullik and Rupesh Kumar (eds.) *Vikas, Paryavaran aur Adivashi Samaj*. K.K. Publications, New Delhi. Pp. 1-11.
- Joshi, P.C. 2020 (ed) special volume of *Journal World Focus* on the theme "Environment and Climate Adaptation" Volume 481.
- Joshi, P. C. 2020. *Climate Change Adaptation: Governance and Community Engagement*. *World Focus*, Volume 481.
- Kabita, Salam, Priyanka Rani Garg, Masan KamboNewmei, Kallur Nava Saraswathy, Huidrom Suraj Singh. 2019. Tumor necrosis factor-alpha gene polymorphisms and complex disorders: A study among mendelian population with East Asian Ancestry. *Journal of the Practice of Cardiovascular Sciences*. 5(1): 35-43.

- Kumari K, Wahengbam AKGS, Saraswathy KN, Rao VR, Murry B. Anemia Induced by Hemoglobinopathies: A Nested Case Control study from Gujarat, India. *Online J Health Allied Scs.* 2019;18(2):2. URL: <https://www.ojhas.org/issue70/2019-2-2.html>
- Mahajan, C. 2019. 'Himachal Pradesh: The land of the gods'. *NAM Today.* LVXL,6: 15-18.
- Mahajan, Chakraverti. 2020. Review of "Kashmir: History, Politics, Representation." by Chitralkha Zutshi. *Contributions to Indian Sociology*, Vol. 54, No. 1, pp. 83-85.
- Mahajan, N., A Kumari, G K Kshatriya. 2019. Prevalence of undernutrition and gender disparities among Kukna and Santal tribal population groups of India. *Research Journal of Humanities and Social Science.* 10 (2): 351-358.
- Mangla, Anita Garg, Neeru Dhamija, Urvashi Gupta, Meenal Dhall. 2020. Anthropometric Markers as a Paradigm for Obesity Risk Assessment. *Journal of Biosciences and Medicines.* 8: 1-16
- Mishra, Jyoti Mishra, Seerat Talwar, Lovejeet Kaur, Ketaki Chandio, Suniti Yadav , Manju Puri. , M.P. Sachdeva, R. Lakshmy, K.N. Saraswathy. 2019. Differential global and MTHFR gene specific methylation patterns in preeclampsia and recurrent miscarriages: A case-control study from North India. *Gene.* 704: 68-73.
- Naveen Kumar, M.P. Sachdeva. 2020. Handwriting yonder religion: a study of handwriting analysis among hindus and muslims of Lucknow, Uttar Pradesh. *International Journal of Scientific Research.* 9 (12): 1-3.
- Newmei, M. K., Yadav, S., Devi, N. K., Mondal, P. R., & Saraswathy, K. N. 2019. Global DNA methylation among premenopausal ever married Liangmai women of Manipur, India. *Gene Reports*, 100543. (<https://doi.org/10.1016/j.genrep.2019.100543>)
- Ranjan, A., Singh, A., Walia, G.K. , Gupta, V., 2019. *J Genet.* 98: 76. <https://doi.org/10.1007/s12041-019-1119-9>
- Rawat, S.,Rajkumari, S., Joshi, PC., Khan, MA., Sraswathy, KN. 2019. Risk factors for Suicide attempt: A population based-genetic study from Telangana, India. *Current Psychology.* <https://doi.org/10.1007/s12144-019-00446-z>.
- Sachdeva, M.P. 2019. 'Punjab: The Land of five rivers'. *NAM Today.* LVXL,6:11- 14.
- Savitesh Kushwaha, Jyoti Mishra, K.N. Saraswathy, P.R. Mondal. 2019. "Association between Age at Menarche and Cardiovascular Risk Factors: A study among Bhil of Rajasthan, India." *International Journal of Innovative Knowledge Concepts* 7(6):103-107
- Zhimo, Avitoli .G. 2019. 'Nagaland: The land of festivals'. *NAM Today.* LVXL,6: 53-56.
- Zhimo, Avitoli G. 2019. 'The significance and mystery of Indo-Pacific beads: The case of the Naga tribes of North East India'. *The Eastern Anthropologist.* 72(1&2): 163-175.
- Zhimo, Avitoli G. 2019. 'Indigenous system of Governance and its implication: The case of Sumi Naga. *Indian Anthropologist.* 49(2): 41-56.
- Zhimo, Avitoli. 2020. Ecotourism. eGyanKosh, IGNOU. <http://egyankosh.ac.in/bitstream/123456789/65767/1/Unit-9.pdf>

4. Research Projects

- DST CSRI project, 2020 – 2023, "Genetic and epigenetic mechanisms of homocysteine metabolic pathway in cognitive impairment: A population based case control study from Haryana"; Rs. 47,87,260. PI: Prof. K.N. Saraswathy

5. Seminars organized

Total Number: 07

Special Lectures

Total number: 06

Conference organized

- Organized an International Conference on “*Anthropology of Food and Health*”; February 27 – 29, 2020, University of Delhi.

Workshop organized

- IIT Gandhi Nagar in partnership with Department of Anthropology, Delhi University organised a Fall School covering the basics of ‘Linguistics and Linguistic Anthropology’ for post-graduate students; October 7-11, 2019 at IIT Gandhi Nagar. Dr. Chakraverti Mahajan, Assistant Professor, Department of Anthropology, University of Delhi was one of the coordinators.

6. Seminars/Conference Presentations (National /International):

International

- Dr. Benrithung Murry presented a paper on ‘Biosocial determinants of maternal and child health in Northeast India: A Case study’ at IRC 2019, XIII International Research Conference on Anthropology, October 29-30, 2019, Paris, France.
- Dr. Avitoli G. Zhimo presented a paper on ‘Transforming an Indigenous Community in India’s Northeast: From Dependency to Involvement’ at International conference on “*Science, Society and Politics in South Asia*”; March 3 - 4, 2020, Bhubaneswar, Odisha.
- Gupta V. presented a paper on ‘An introduction to GaRBH cohort’ at International Conference on Anthropology of Food and Health, February 27 - 29, 2020, Delhi

7. Students under Exchange Programme

- Nina Baum, a foreign exchange student from Freie Universität Berlin, Berlin, Germany for the current semester (January to May 2019). She has opted for two papers in the Department: Tribal India, and Anthropology of Development.
- Laura Murray, a Ph.D. scholar from New York University was affiliated to Department of Anthropology, University of Delhi till 2019. Her doctoral research investigates changing political ecologies of cattle and dairy development in north India.
- Meherose Borthwick, a Ph.D. scholar from University of Sydney is currently affiliated to Department of Anthropology, University of Delhi for a period of one year w.e.f. November 2019. Her research seeks to investigate how working-class women in India are engaged with the global production and consumption of fashion. She intends to do her fieldwork in the town of Bagru, Rajasthan with female

workers in the handblock textile printing workshops located there. Her Indian Guide is Dr. Avitoli G. Zhimo.

8. Number of M.Phil. and Ph.D. awarded

Ph.D. : 20

M.Phil. : 10

9. Faculty strength : 16

Professors : 6

Associate Professor : 1

Assistant Professors : 9

DEPARTMENT OF BOTANY

1. Major Activities and Achievements

The Department of Botany continues to be engaged in a productive manner in both teaching and research. The M.Sc. Botany program imparts education in diverse subject areas related to Plant Sciences with an objective of providing holistic education to students. Interdisciplinary papers are offered with the involvement of faculty from other departments of Delhi University. The Department faculty is engaged in high quality research on several plant species ranging from algae, bryophytes, pteridophytes and gymnosperms to crop plants, medicinal plants and forest trees. Research paradigms range from morphological, anatomical, genetics, physiological and biochemical studies to genomics, proteomics and transgenic studies, study of ecosystems, evolution and plant-based nanotechnological approaches against different human cancer cell lines and mosquito vectors. This extensive diversity of research paradigms allows students to gain an interdisciplinary outlook and training in cutting-edge technologies. The faculty has an active publication profile and their work is recognized in various National and International forums.

2. Publications

- Adit, A., Kaul, M., & Tandon, R. (2019). New distributional records in the Orchid flora of Tripura. *Journal of Threatened Taxa* 11, 14876-14885.
- Adit, A. Kaul, M., & Tandon, R. (2020). Twelve new additions in the orchid flora of Tripura, NE India. *Check List* 16, 17-25.
- Anand, G., & Kapoor, R. (2020). Nested PCR assay for specific and sensitive detection of *Alternaria carthami*. *Archives of Microbiology*, 202(1), 171-179.
- Arora, S., & Mishra, G. (2019) Biochemical modulation of *Monodopsis subterranea* (Eustigmatophyceae) by auxin and cytokinin enhances eicosapentaenoic acid productivity. *J. Appl. Phycology*. 31, 3441–3452.
- Chauhan, C., Joshi, G., Chaudhary, D., & Das, S., (2020) Sequence and functional analysis of cis-elements associated with MIR159 loci from *Brassica juncea* reveal functional diversification and complex transcriptional regulation. *Plant Growth and Regulation*. 90: 279–306

- Chrungoo, N.K., Devi, R. J., Goel, S., & Das. K. (2019). Deciphering species relationships and evolution in *Chenopodium* through sequence variations in nuclear internal transcribed spacer region and amplified fragment-length polymorphism in nuclear DNA. *Journal of Genetics* 98(2): 37.
- Das, M.C., Saxena, K.G. & Rao, K.S. (2019). Soil biodiversity and their function and threat to them: A review. *SGAT Bulletin*, 20 (1): 1-28.
- Dinakaran, J., Chandra, A., Vikram, K., Chamoli, K., Tambat, S. & Rao, K.S. (2019). Responses of soil carbon, nitrogen, microbial activity, bacterial community composition and grain yield to farmyard manure amendments in a rainfed agriculture (Paddy) system of Himalaya. *Vegetos*, 32 (4): 620-634.
- Dinakaran, J., Vikram, K., Hanief, M., Bidalia, A., Tambat, S. & Rao, K.S. (2019). Changes in vegetation cover and soil intrinsic properties influence the soil bacterial community composition and diversity across different climatic regions of India. *Vegetos*, 32 (3): 288-302.
- Evelin, H., Devi, T. S., Gupta, S., & Kapoor, R. (2019). Mitigation of salinity stress in plants by arbuscular mycorrhizal symbiosis: current understanding and new challenges. *Frontiers in Plant Science*, 10, 470.
- Goel, M., Laatsch, H. & Uniyal, P.L. (2019). Characterization of phenolic compounds from *Parmelia reticulata* Tayl. *National Academy Science Letters*. doi.org/10.1007s40009-019-0784-9
- Gogna, M., Choudhary, A., Mishra, G., Kapoor, R., & Bhatla, S. C. (2020). Changes in lipid composition in response to salt stress and its possible interaction with intracellular Na⁺-K⁺ ratio in sunflower (*Helianthus annuus* L.). *Environmental and Experimental Botany*, 178, 104147.
- Hajong, S., & Kapoor, R. (2020). An amalgam of pathogenic and beneficial endophytic fungi colonizing four *Dendrobium* species from Meghalaya, India. *Journal of Basic Microbiology*, 60(5), 415-423.
- Kasana, S., Dwivedi, M., Uniyal, P.L. & Pandey, A.K. (2020). An updated circumscription of *Saussurea* (Cardueae, Asteraceae) and allied genera based on morphological and molecular data. *Phytotaxa* 450 (2), 173–187
- Kasana, S., Uniyal, P.L. & Pandey, A.K. (2019). Lactotypification *Lipschitzia ceratocarpa*. (Asteraceae, Cardueae) an endemic species from Indian Himalaya. *Kew Bulletin* 74, 34. (DOI:10.1007/s12225-019-9821-6)
- Kasana, S., Uniyal, P.L. & Pandey, A.K. (2019). Rediscovery of *Saussurea andryaloides* (Asteraceae: Cardueae) from Uttarakhand, India. *Rheedea* 29(1), 116-118
- Kashyap P., & Deswal, R. (2019). Two ICE isoforms showing differential transcriptional regulation by cold and hormones participate in *Brassica juncea* cold stress signaling. *Gene*, 695, 32-41.
- Katiyar A, & Mudgil, Y. (2019). Arabidopsis NDL-AGB1 modules Play Role in Abiotic Stress and Hormonal Responses Along with Their Specific Functions. *J. Mol. Sci.* 20 (19) 4736, <https://doi.org/10.3390/ijms20194736>
- Krishnan, R., Khanduri, P., & Tandon, R. (2019). Floral biology, pollination mechanism and embryo development in *Zeylanidium maheshwarii* (Podostemaceae), *Vegetos* 32, 216-222.

- Krishnan, R., Khanduri, P., & Tandon, R. (2019). *Zeylanidium manasiae*, a new species of Podostemaceae based on molecular and morphological data from Kerala, India *Phytokeys* 124, 23–38.
- Kukreja, B., Joshi, G., Sharma, E., Kapoor, R., Goel, S., Jagannath, A., Kumar, A., & Agarwal, M. (2018). Standardization of Hydroponics based procedure for High-Throughput Screening and its Application for identification of differential host response in Safflower against *Fusarium oxysporum carthamii*. *Vegetos* 31(2):5-11.
- Kumari, A., Kapoor, R., & Bhatla, S. C. (2019). Nitric oxide and light co-regulate glycine betaine homeostasis in sunflower seedling cotyledons by modulating betaine aldehyde dehydrogenase transcript levels and activity. *Plant signaling & behavior*, 14(11), 1666656.
- Mann, N., Uniyal, P.L. & Lakhanpaul, S. (2020). Incidence of in situ pollen germination in three species of *Viola L.* of Uttarakhand. *National Academy Science Letters*. <https://doi.org/10.1007/s40009-020-00917-z>
- Meena, A., Bidalia, A., Hanief, M., Dinakaran, J. & Rao, K.S. (2019). Assessment of above- and belowground carbon pools in a semi-arid forest ecosystem of Delhi, India. *Ecological Processes*, 8(1): 8.
- Nindavat, S., & Agrawal, V. (2020). Arabian Primrose leaf extract mediated synthesis of silver nanoparticles: their industrial and biomedical applications. *Artificial Cells, Nanomedicine, and Biotechnology*, 48, 1259-1271.
- Phukela, B., Das, S., Geeta, R., & Tandon, R. (2020). Ancestral segmental duplication in Solanaceae is responsible for the origin of CRCa-CRCb paralogues in the family. *Molecular Genetics and Genomics* 295(3), 563-577.
- Prakash S., & Deswal, R. (2020). Analysis of temporally evolved nanoparticles-protein corona highlighted the prudential ability of gold nanoparticles to stably interact with proteins and influence the major biochemicals pathways in *Brassica juncea*. *Plant Physiology and Biochemistry*, 146, 143-156.
- Rajput, S., & Agrawal, V. (2020). Micropropagation of *Atropa acuminata* Royle ex Lindl. (a critically endangered medicinal herb) through root callus and evaluation of genetic fidelity, enzymatic and non-enzymatic antioxidant activity of regenerants. *Acta Physiol. Plant. (Accepted)*, DOI: 10.1007/s11738-020-03145-6).
- Rajput, S., Kumar, D., & Agrawal, V. (2020). Green synthesis of silver nanoparticles using Indian Belladonna extract and their potential antioxidant, anti-inflammatory, anticancer and larvicidal activities. *Plant Cell Reports*, 1-19.
- Raxwal, V. K., Ghosh, S., Singh, S., Katiyar Agarwal, S., Goel, S., Jagannath, A., Kumar, A., Scaria, V., & M. Agarwal. (2020). Abiotic stress mediated modulation of chromatin landscape in *Arabidopsis thaliana*. *J. Exp. Bot.* 71:5280-5293
- Saini, H., Yadav, R., Kumar, D., Kumar, G., & Agrawal, V. (2020). *Cullen corylifolium* (L.) Medik. Seed extract, an excellent system for fabrication of silver nanoparticles and their multipotency validation against different mosquito vectors and human cervical cancer cell line. *Journal of Cluster Science*, 31(1), 161-175.

- Sehrawat A., Sougrakpam Y., & Deswal, R. (2019). Cold modulated nuclear S-nitrosoproteome analysis indicates redox modulation of novel Brassicaceae specific, myrosinase and napin in *Brassica juncea*. *Journal of Environmental and Experimental Botany*. 161, 312-333.
- Sharma B., & Deswal, R. (2020). Ecophysiological analysis of stress tolerant Himalayan shrub *Hippophae rhamnoides* shows multifactorial acclimation strategies induced by diverse environmental conditions. *Physiologia Plantarum*, Vol.168, 58–76.
- Sharma B., Arora S., Sahoo D. B., & Deswal, R. (2020). Comparative fatty acid profiling of Indian seabuckthorn showed altitudinal gradient dependent species-specific variations. *Physiology and Molecular Biology of Plants* 26, 41–49.
- Sharma B., Gupta R., Sahoo D.B., & Deswal, R. (2019). Purification of dual-functioning chitinases with hydrolytic and antifreeze activities from *Hippophae rhamnoides* seedlings. *Journal of Proteins and Proteomics*, 10, 69 – 81.
- Shah, S., Sahoo, D.B., Shukla, R.N., & Mishra, G. (2019) De novo transcriptome sequencing of *Monodopsis subterranea* CCALA 830 and identification of genes involved in the biosynthesis of eicosapentanoic acid and triacylglycerol. *Vegetos* 32, 600–608
- Singh, N., Anand, G., & Kapoor, R. (2019). Incidence and severity of fungal diseases of safflower in India. *Crop Protection*, 125, 104905.
- Singh, N., Anand, G., & Kapoor, R. (2019). Virulence and genetic diversity among *Fusarium oxysporum* f. sp. *carthami* isolates of India using multilocus RAPD and ISSR markers. *Tropical Plant Pathology*, 44(5), 409-422.
- Singh, T., Sharma, U., & Agrawal, V. (2020b). Isolation and optimization of plumbagin production in root callus of *Plumbago zeylanica* L. augmented with chitosan and yeast extract. *Industrial Crops and Products*, 151, 112446.
- Singh, T., Yadav, R., & Agrawal, V. (2020a). Effective protocol for isolation and marked enhancement of psoralen, daidzein and genistein in the cotyledon callus cultures of *Cullen corylifolium* (L.) Medik. *Industrial Crops and Products*, 143, 111905.
- Tailor, A., Tandon, R., & Bhatla, S.C. (2019). Routes of nitric oxide modulated polyamine homeostasis in sunflower seedling cotyledons under salt stress. *Plant Signalling & Behaviour* 14(11), e1667730 (6 pages), doi.org/10.1080/155 92324.2019.1667730
- Thokchom, S. D., Gupta, S., & Kapoor, R. (2020). Arbuscular mycorrhiza augments essential oil composition and antioxidant properties of *Ocimum tenuiflorum* L.–A popular green tea additive. *Industrial Crops and Products*, 153, 112418.
- Vijay, A., Jha, P.K., Parveen, S., Goel, S., Prabhakar, A., Kumar, B., & Chatterjee, T. (2019). Aberrant Promoter Hypermethylation Mediated Regulation of Thrombomodulin Gene in High Altitude Induced Deep Vein Thrombosis. *Circulation* 140 (Suppl_1), A10076-A10076.
- Veera, S.N.S., Panda, R.M., Behera, M.D., Goel, S., Roy, P.S., & Barik, S.K. Prediction of upslope movement of *Rhododendron arboreum* in Western Himalaya. *Tropical Ecology*, 1-7

- Wahlang, D.R., Lamo, J.M., Goel, S., & Rao, S.R. (2019). Karyo-morphological consistency and heterochromatin distribution pattern in diploid and colchitetraploids of *Vigna radiata* and *V. mungo*, *Meta Gene*: 100569
- Wahlang, D.R., Suchiang, W., Goel, S., & Rao, S.R. (2019). Analysis of genetic variation using ISSR and the development of SCAR marker in synthetic autotetraploids of *Vigna mungo* (L.) Hepper, *Vegetos*:1-10
- Yadav, K., & Deswal, R. (2019). Advances in Antifreeze Proteins Research and its Applications. *The Botanica*, Volume 68, 124-136.
- Yadav, R., Saini, H., Kumar, D., Pasi, S., & Agrawal, V. (2019). Bioengineering of *Piper longum* L. extract mediated silver nanoparticles and their potential biomedical applications. *Materials Science and Engineering: C*, 104, 109984.

Book Chapters

- Abat, J.K., & Deswal, R. (2019) Nitric Oxide: A Tiny Decoder and Transmitter of Information. In: Sopory S. (eds) *Sensory Biology of Plants*. Springer, Singapore. https://doi.org/10.1007/978-981-13-8922-1_12
- Devi, T. S., Gupta, S., & Kapoor, R. (2019). Arbuscular Mycorrhizal Fungi in Alleviation of Cold Stress in Plants. In *Advancing Frontiers in Mycology & Mycotechnology* (pp. 435-455). Springer, Singapore.
- Gambhir, P., Bhola, D., Sharma S., Mudgil, Y., & Sharma, A. (2019). Integration of Multiple Signaling Cues. 10.1007/978-981-13-8922-1_21. Sudhir Sopory (Ed) *In: Sensory Biology of Plants*. ISBN:978-981-13-8922-1.
- Kashyap, P., & Deswal, R. (2019). Phytohormones regulating the Master Regulators of CBF Dependent Cold Stress Signaling Pathway. Eds. (Vijay Rani Rajpal, Deepmala Sehgal, Avinash Kumar, S.N. Raina) In *Genetic Enhancement of Crops for Tolerance to Abiotic Stress: Mechanisms and Approaches*, Vol. I, 249-264.
- Kaur, I. & Uniyal, P.L. (2019). *Textbook of Bryophytes*. Delhi, New Delhi: Daya Publishing House.
- Mangla, Y., Manisha, Tandon, R., & Goel, S. (2020). Dynamics of Eco-Evolutionary Forces in Shaping Dioecy. Rajesh Tandon et al. (Eds): *Reproductive Ecology of Flowering Plants: Patterns and Processes*.

3. Journals

Published by the Department

- Phytomorphology (six monthly journal published by the International Society of Plant Morphologists)
- The Botanica (The Annual scientific magazine of the Delhi University Botanical Society)
- **Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board**
- Prof. Renu Deswal: Associate Editor, *Journal of Proteins and Proteomics*

- Prof. Renu Deswal: Review Editor, *Frontiers in Plant Physiology*,
- Prof. Renu Deswal: Review Editor, *Plant Proteomics*
- Prof. Rupam Kapoor: Associate Editor “3Biotech” (Agriculturally Important Pathogenic and Symbiotic Fungi) Springer.
- Prof. Rupam Kapoor: Member Editorial Board “*Journal of Mycology and Plant Pathology*” published by Indian Society of Mycology and Plant Pathology.
- Prof. Rupam Kapoor: Member Editorial Board “*Climate Change and Environmental Sustainability*” published by The Society for Science of Climate Change and Sustainable Environment.
- Prof. Shailendra Goel: Academic editor for PLOS ONE
- Prof. Shailendra Goel: Advisory board member, *Amity Journal of Advanced Research in Biotechnology and Nanobiotechnology*

Research Projects

- DST-SERB; March 30, 2017-September 29, 2020; “Bio-assay guided Isolation, Identification and Elicitation of Anticancerous bioactive compounds from *Nardostachys jatamansi*, *Psoralea corylifolia* and *Plumbago zeylenica*”; Rs. 33,18,480.00. PI: Prof. Veena Agrawal.
- DBT-IBSD; 2017-2019; “Characterizing un-explored *Seabuckthorn* germplasm in Sikkim for antifreeze proteins, secondary metabolites, its comparison with germplasm of Lahaul and spiti valley, Himachal Pradesh and also utilizing the bioresources for uplifting the livelihood of local people”. Rs. 1 crore; 50 lakhs per PI; PI: Prof. R. Deswal
- DST-SERB; 2018-2021; “Diversity and performance of key forest tree species and bryophytes in gap and non-gap areas along an altitudinal gradient in Uttarakhand”; Rs. 41 Lakhs; PI: Prof. P.L. Uniyal.
- DST-SERB; 2020-23; “Deciphering the mechanisms of reduced uptake and accumulation of Arsenic (As) in grain by arbuscular mycorrhizal fungi to develop mitigation strategies for wheat irrigated with As-contaminated ground water in India”; Rs. 36,33,696/-; PI: Prof. Rupam Kapoor.
- DBT; 2016-2019; “Exploration of genome-wide polymorphism, imprintomes and methylomes to unfold the genetic, epigenetic and evolutionary mysteries of basal angiosperms with emphasis on *Nymphaea* L.”; Rs. 43,32,480; PI: Prof. Manu Agarwal, Co-PI: Prof. S. Goel
- DST-SERB; 2018-2021; “Development of SNP markers and association mapping for agronomic traits on a core collection of the oilseed crop, *Carthamus tinctorius* (Safflower)”; Rs. 30,73,789; PI: Prof. Shailendra Goel
- DBT; 2018-2021; Whole Genome and transcriptome changes as a consequence of allo and auto-polyploidy in *Vigna* L.: Phase II”; Rs. 21,00,000; PI: Prof. Shailendra Goel
- DBT; 2019-2022; “A biotechnological approach to elucidate adaptation mechanism, migration pattern and reproductive biology of indicator temperate alpine plants in Himalayas in response to changing climate”; Rs. 89,00,000 (Total 1,49,00,000 for four institutes); Project Coordinator and PI: Prof. Shailendra Goel

- ICAR-NASF; 2018-2021; “Identification of super donors and alleles for spikelet fertility and low chalkiness under thermal stress in rice”; Rs. 89.54 lakhs; PI: Prof. Manu Agarwal
- DBT; 2019-2022; “Global perspective of transcriptome, proteome and metabolome of root knot nematode effectors conferring host specificity and host response to them during disease development”; Rs. 56.6 lakhs; PI: Prof. Manu Agarwal
- DST-SERB; 2019-2022; “Identification of miRNAs from contrasting lines of *Carthamus* and their contribution intolerance against *Fusarium wilt*”; Rs. 40.35 lakhs; PI: Prof. Manu Agarwal
- DBT; 2020-2025; “Exploiting Genetic Diversity for Improvement of Safflower through Genomics Assisted Discovery of QTLs/Genes Associated with Agronomic Traits”; Rs. 4,81,73,960; PI: Prof. Arun Jagannath, Co-PI: Prof. S. Goel
- DBT; Centre of Excellence Grant Phase II; 2015–2020; “Transgenic approaches for resistance to mustard aphids”, Satellite Project under ‘Centre of Excellence on Genome Mapping and Molecular Breeding of *Brassicas*’ awarded to University of Delhi South Campus and University of Delhi, Delhi; Rs. 108.70 Lakhs; PI: Prof. Arun Jagannath
- DBT; August 2019-August 2022; “Characterization of role of miR159 in male-meiosis and filament elongation in *Brassica juncea* and *Arabidopsis thaliana*: strategies for crop improvement”; Rs. 67.6672 Lakhs; PI: Dr. Sandip Das
- DST-SERB; 26th March 2019-25th March 2022; “Phosphatidic acid-protein interactions: molecular mechanism and role during abiotic stress in *Arabidopsis*”; Rs. 46,66,871; PI: Dr. Girish Mishra.
- DST-SERB; 17th March 2017- 16th March 2020; “*At* NDL Proteins: Molecular Mechanism of Action in Regulation of Plant Growth and Development”; Rs. 40.89 lakhs; PI: Dr. Yashwanti Mudgil
- DBT; 19th Feb 2018 – 18th Feb 2021; “Root Development related Signaling Networks: Role of *At* N-myc Downregulated Like Proteins and Interacting Partners”; Rs. 49.87 lakhs; PI: Dr. Yashwanti Mudgil.

4. Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 09

M.Phil. : 04

5. Faculty Strength:

Total : **19**

Professors : 13

Associate Professor : 01

Assistant Professors : 05

Head/Director’s

Signature

Seal of Department/Centre/Institution

DEPARTMENT OF CHEMISTRY

Major Activities and Achievements

Established in 1922, the Department of Chemistry is one of the largest departments in the University of Delhi, and one of the largest chemistry departments globally. Historically, it was one of the first departments to be established in Delhi University. The M.Sc. program has a current regular intake of 345 students. Teaching is divided into three disciplines, i.e. Inorganic, Organic and Physical Chemistry. Approximately 100 Ph.D. scholars are admitted to the Department every year. The Department currently has 34 faculty members, who conduct research in diverse areas, including bioinorganic chemistry, organometallic and main group chemistry, supramolecular chemistry, bioorganic chemistry, natural products, carbohydrate chemistry, green chemistry, catalysis, and medicinal chemistry, theoretical studies including computational chemistry, experimental and theoretical aspects of electrochemical studies, molecular dynamics, protein and peptide chemistry, chemical thermodynamics and interdisciplinary research in materials chemistry. The Department is recognized by DST as one of the leading departments due to its extensive research contributions.

Honours/Distinctions

Prof. Rakesh Kumar Sharma was appointed as Honorary Professor of Deakin University, Australia. He was awarded the 2019 IAC Global Innovation (GI) Grant of \$5000 USD by American Chemical Society's Committee on International Activities (IAC) and the Newton Bhabha Fund Researcher Link Grant. He is the ambassador of Bentham Publications.

Prof. Ashok K. Prasad has been appointed as Visiting Professor at the Graduate School of Advanced Science and Technology, JAIST, Japan.

Prof. Shrikant Kukreti was selected for the Leadership Academicians Programme (LEAP) 2020 sponsored by MHRD at INSA, New Delhi (8 March - 21 March 2020).

Prof. Akhilesh K. Verma received the Dr. APJ Abdul Kalam National Dedication award 2020.

Dr. P. Venkatesu received the Prof. S. P. Hiremath Award (December, 2019) from the Indian Council of Chemists, India.

Dr. Gopalaiah Kovuru received the ISCAS Dr. Lakshmi Endowment Medal by the Indian Association of Solid State Chemists and Allied Scientists (December 20, 2019).

Dr. Sandeep Kaur was selected as a Global Young Academy member (2019-2024), Halle, Germany.

Publications

Research Articles

Agarwal, D., Singh, S., Gupta, R.D., & Awasthi, S.K. (2019). In vitro synergistic interaction of potent 4-aminoquinolines in combination with dihydroartemisinin against chloroquine-resistant plasmodium falciparum. *Acta Tropica*, 199, 105109.

- Agarwal, P., Thirupathi, N., & Nethaji, M. (2019). Influence of cadmium(II) source upon the formation of a discrete monomer $[\text{Cd}(\kappa^2\text{-OC}(\text{O})^i\text{Bu})_2(\text{H}_2\text{O})_2]$ and a trinuclear heterobimetallic 1D CP, $\{\text{Na}_2[\text{Cd}(\mu_5\text{-}\kappa^3\text{:}\kappa^3\text{-OAc})(\mu_3\text{-}\kappa^2\text{:}\kappa^3\text{-OC}(\text{O})^i\text{Bu})(\mu_3\text{-}\kappa^1\text{:}\kappa^2\text{-OC}(\text{O})^i\text{Bu})_2]\cdot 2^i\text{BuC}(\text{O})\text{OH}\}_\infty$. *Inorganica Chimica Acta*, 489, 126–131. <https://doi.org/10.1016/j.ica.2019.02.012>
- Agarwal, T., & Kaur-Ghumaan, S. (2019). HER catalysed by iron complexes without a Fe_2S_2 core: A review. *Coordination Chemistry Reviews*, 397, 188-219.
- Agarwal, T., & Kaur-Ghumaan, S. (2020). Mono-and dinuclear mimics of the [FeFe] hydrogenase enzyme featuring bis(monothiolato) and 1,3,5-triaza-7-phosphaadamantane ligands. *Inorganica Chimica Acta*, 504, 119442.
- Aggarwal, L., & Biswas, P. (2020). Effect of Alzheimer's disease causative and protective mutations on the hydration environment of Amyloid- β . *The Journal of Physical Chemistry B*, 124, 2311-2322.
- Aggarwal, P., Sharma, S., & Hazra, R.K. (2020). Multi-electron anisotropic quantum dots/TMDCs/CNT families under magnetic field: analytical treatment to first Brillouin zone by Fermi liquid model. P. Aggarwal, S. Sharma and R.K. Hazra, *Molecular Physics*, e1761472 (MQM Special Issue, Invited article by German School of Chemistry).
- Aggarwal, P., Sharma, S., Kaur, H., Yadav, S., & Hazra, R. K. (2019). Electronic spectra and chemical potential of 2-D multi-electron quantum dots in magnetic field: exact multi-pole expansion of coulomb correlation. *Journal of Physics Communication*, 3, 035011.
- Aggarwal, T., Sushmita, & Verma, A. K. (2019). Recent advances in the synthesis of carbazoles from indoles. *Organic & Biomolecular Chemistry*, 17, 8330–8342.
- Agnihotri, S., Mohan, T., Jha, D., Gautam, H.K., & Roy, I. (2020). Dual modality FeS nanoparticles with reactive oxygen species-induced and photothermal toxicity toward pathogenic bacteria. *ACS Omega*, 5(1), 597-602.
- Akhtar, M. S., Bui, P. T. M., Li, Z. Y., Yang, O. B., Paul, B. J., Kim, S., Kim, J., & Rai, A. K. (2019). Impact of porous Mn_3O_4 nanostructures on the performance of rechargeable lithium ion battery: Excellent capacity and cyclability. *Solid State Ionics*, 336, 31–38.
- Antil, B., Kumar, L., Reddy, K. P., Gopinath, C. S., & Deka, S. (2019). Direct thermal polymerization approach to N-rich holey carbon nitride nanosheets and their promising photocatalytic H_2 evolution and charge storage activities. *ACS Sustainable Chem. Eng.*, 7, 9428-9438.
- Arora, G., G., Behura, A., Gosain, T. P., Shaliwal, R. P., Kidwai, S., Singh, P., Kandi, S. K., Dhiman, R., Rawat, D. S., & Singh, R. (2020). NSC 18725, a pyrazole derivative inhibits growth of intracellular *Mycobacterium tuberculosis* by induction of autophagy. *Frontiers in microbiology*, 10, 3051.
- Arora, R., Kashyap, K., Mittal, A., & Kakkar, R. (2019). Synthesis and reactions of diazoketones. *Organic Preparations and Procedures International*, 51(2), 103-146.
- Bahuguna, A., & Rawat, D. S. (2020). An overview of new antitubercular drugs, drug candidates, and their targets. *Medicinal Research Reviews*, 40(1), 263-292.
- Bansal, A., & Kukreti, S. (2020). The four repeat *Giardia lamblia* telomere forms tetramolecular G-quadruplex with antiparallel topology. *Journal of Biomolecular Structure & Dynamics*, 38(7), 1975-1983.

- Bansal, A., Kaushik, S., Ahmed, S., & Kukreti, S. (2019). Autosomal dominant polycystic kidney disease: a review. *Journal of Biomedical and Therapeutic Sciences*, 6 (1), 15-23.
- Bansal, D., & Gupta, R. (2019). Selective Sensing of ATP by hydroxide-bridged dizinc(II) complexes offering a hydrogen bonding cavity. *Dalton Transactions*, 48, 14737 – 14747.
- Bansal, D., Mondal, A., Lakshminarasimhan, N., & Gupta, R. (2019). Oxo-bridged trinuclear and tetranuclear manganese complexes supported with nitrogen donor ligands: syntheses, structures and properties. *Dalton Transactions*, 48, 7918 – 7927.
- Bhakuni, K., & Venkatesu, P. (2019). Does macromolecular crowding compatible with enzyme stem bromelain structure and stability? *International Journal of Biological Macromolecules*, 131, 527–535. <https://doi.org/10.1016/j.ijbiomac.2019.03.090>
- Bhakuni, K., Bisht, M., Venkatesu, P., & Mondal, D. (2019). Designing biological fluid inspired molecularly crowded ionic liquid media as a sustainable packaging platform for cytochrome c. *Chemical Communications*, 55(40), 5747–5750. <https://doi.org/10.1039/c9cc02340b>
- Bhatt, A. N., Rai, Y., Verma, A., Pandey, S., Kaushik, K., Parmar, V. S., Arya, A., Prasad, A. K., & Dwarakanath, B. S. (2020). Non-enzymatic protein acetylation by 7-acetoxy-4-methylcoumarin: Implications in protein biochemistry. *Protein Peptide Letters*, 27(8), 736-743. <https://doi.org/10.2174/0929866527666200305143016>
- Bhattacharyya, K., Nemaish, V., Joon, M., Pratap, R., Varma-Basil, M., Bose, M., & Brahmachari, V. (2020). Correlation of drug resistance with Single Nucleotide Variations through genome analysis and experimental validation in a multi-drug resistant clinical isolate of *M.tuberculosis*. *Cold Spring Harbor Laboratory*. <https://doi.org/10.1101/2020.03.07.981878>
- Bisht, Y., Abhilash, P., Lekshmi, D. R., & Thirumal, M. (2020). Microwave dielectric properties of (1-x)Ba(Mg_{1/3}Ta_{2/3})O₃-(x) Ba(Mg_{1/8}Ta_{3/4})O₃ ceramic synthesized by one pot metathesis process. *Ferroelectrics*, 558 (1), 92-103.
- Chadha, N., Singh, D., Milton, M. D., Mishra, G., Daniel, J., Mishra, A. K., & Tiwari, A. K. (2020). Computational prediction of interaction and pharmacokinetics profile study for polyamino-polycarboxylic ligands on binding with human serum albumin. *New Journal of Chemistry*, 44(7), 2907–2918. <https://doi.org/10.1039/c9nj05594k>
- Chahal, V., Nirwan, S., & Kakkar, R. (2019). Combined approach of homology modeling, molecular dynamics, and docking: computer-aided drug discovery. *De Gruyter*. <https://www.degruyter.com:443/view/journals/psr/4/10/article-20190066.xml>
- Chahal, V., Nirwan, S., & Kakkar, R. (2019). Isatin and its derivatives: A survey of recent syntheses, reactions, and applications. *Medicinal Chemistry Communications* 10, 351- 368.
- Chahal, V., Nirwan, S., & Kakkar, R. (2020). A comparative study of the binding modes of SLC- 0111 and its analogues in the hCA II and hCA IX active sites using QM/MM, molecular docking, MM-GBSA and MD approaches. *Biophysical Chemistry*, 265, 106439. <https://doi.org/10.1016/j.bpc.2020.106439>
- Chandel, S., Lee, S., Kim, S., Singh, S. P., Gim, J., Kim, J., & Rai, A. K. (2019). Structural and electrochemical behavior of a NiMnO₃/Mn₂O₃ nanocomposite as an anode for high rate and long cycle lithium ion batteries. *New Journal of Chemistry*, 43(33), 12916–12922.

- Chaudhary, K., Subodh, Prakash, K., Mogha, N. K., & Masram, D. T. (2020). Fruit waste (Pulp) decorated CuO NFs as promising platform for enhanced catalytic response and its peroxidase mimics evaluation. *Arabian Journal of Chemistry*, *13*(4), 4869–4881. <https://doi.org/10.1016/j.arabjc.2019.09.007>
- Chaudhary, K., Trivedi, M., Masram, D. T., Kumar, A., Kumar, G., Husain, A., & Rath, N. P. (2020). A highly active copper catalyst for the hydrogenation of carbon dioxide to formate under ambient conditions. *Dalton Transactions*, *49*(9), 2994–3000. <https://doi.org/10.1039/C9DT04662C>
- Chaudhary, S., Mukherjee, M., Paul, T. K., Taraphder, S., & Milton, M. D. (2020). Novel thiazoline-phenothiazine based “push-pull” molecules as fluorescent probes for volatile acids detection. *Journal of Photochemistry and Photobiology A: Chemistry*, *397*, 112509. <https://doi.org/10.1016/j.jphotochem.2020.112509>
- Chauhan, M., & Deka, S. (2019). Hollow cobalt sulfide nanoparticles: a robust and low-cost pH- universal oxygen evolution electrocatalyst. *ACS Applied Energy Materials* *2019*, *3*, 977-986.
- Das, V., Kaushik, R., & Hussain, F. (2020). Heterometallic 3d-4f polyoxometalates: An emerging field with structural diversity to multiple applications. *Coordination Chemistry Reviews*, *413*, 213271. <https://doi.org/10.1016/j.ccr.2020.213271>
- Deepa, Yadav, G. D., Chaudhary, P., Aalam, M. J., Meena, D. R., & Singh, S. (2020). Chiral imidazolidinone with catalytic amount of dicationic ionic liquid act as a recoverable and reusable organocatalyst for asymmetric Diels-Alder reaction. *Chirality*, *32*, 64-72.
- Elagamy, A., Shaw, R., Panwar, R., Shally, Ram, V. J., & Pratap, R. (2019). Synthesis of highly functionalized spirobutenolides via a nitroalkane-mediated ring contraction of 2-oxobenzo[h]chromenes through denitration. *The Journal of Organic Chemistry*, *84*(3), 1154–1161. <https://doi.org/10.1021/acs.joc.8b02257>
- Faujdar, H., Spannenberg, A., & Kaur-Ghumaan, S. (2020). Structural and HER studies of diphosphine-monothiolate complexes $[\text{Fe}_2(\text{CO})_4(\mu\text{-naphthalene-2-thiolate})_2(\mu\text{-dppe})]$ and $[\text{Fe}_2(\text{CO})_4(\mu\text{-naphthalene-2-thiolate})_2(\mu\text{-DPEPhos})]$. *Inorganica Chimica Acta*, *501*, 119227.
- Gahlyan, P., Bawa, R., Jain, H., Dalela, M., Joshi, A., Ramachandran, C. N., Prasad, A. K., & Kumar, R. (2019). Isatin-triazole tethered rhodamine based dual sensor for recognition of Cu^{2+} and Fe^{3+} ions and its application in live cell imaging. *ChemistrySelect*, *4*, 7532-7540.
- Gandhi, S., & Roy, I. (2019). Methylene blue loaded, silica coated cobalt ferrite nanoparticles with potential for combination therapy. *Materials Research Express*, *6* (7), 074005. <https://doi.org/10.1088/2053-1591/ab187a>
- Gandhi, S., & Roy, I. (2019). Synthesis and characterization of manganese ferrite nanoparticles, and its interaction with bovine serum albumin: A spectroscopic and molecular docking approach. *J. Mol. Liq.* *296*, 111871. <https://doi.org/10.1016/j.molliq.2019.111871>
- Gandhi, S., & Roy, I. (2020). Biomedical in vivo studies with ORMOSIL nanoparticles containing active agents. *Methods Mol Biol.* *2118*, 121-138. https://doi.org/10.1007/978-1-0716-0319-2_9
- Garkoti, C., Shabir, J., & Mozumdar, S. (2020). Amine-terminated ionic liquid modified magnetic graphene oxide (MGO-IL-NH₂): A highly efficient and reusable nanocatalyst for the synthesis of 3-amino alkylated indoles. *ChemistrySelect*, *5*(14), 4337–4346. <https://doi.org/10.1002/slct.202000336>

- Gopalaiah, K. (2019). Straightforward access to 3,4-dihydro-2H-1,2,4-benzothiadiazine1,1- dioxides and quinazolines via iron-catalyzed aerobic oxidative condensation of amines. *ChemistrySelect*, *4*(18), 5200-5205. <https://doi.org/10.1002/slct.201900850>
- Goyal, H., Pachisia, S., & Gupta, R. (2020). Systematic design of a low molecular weight gelator and its application in the sensing and retention of residual antibiotics. *Crystal Growth & Design*, *20*, 6117 – 6128.
- Gulati, A., Malik, J., Mandeep, & Kakkar, R. (2020). Peanut shell biotemplate to fabricate porous magnetic Co₃O₄ coral reef and its catalytic properties for p-nitrophenol reduction and oxidative dye degradation. *Colloids and Surfaces A:Physicochemical and Engineering Aspects*, *604*, 125328. <https://doi.org/10.1016/j.colsurfa.2020.125328>
- Gulati, A., Mandeep, Malik, J., & Kakkar, R. (2020). Mesoporous rGO@ZnO composite: Facile synthesis and excellent water treatment performance by pesticide adsorption and catalytic oxidative dye degradation. *Chemical Engineering Research and Design*, *160*, 254-263. <https://doi.org/10.1016/j.cherd.2020.04.040>
- Gulati, U., Chinna Rajesh, U., & Rawat, D. S. (2020). Renewable RGO@ CuI nanocomposites for redox triggered single electron transfer (SET) reaction under aerobic and anaerobic conditions. *ChemCatChem*, *12*(14), 3728-3736.
- Gulati, U., Rajesh, U. C., & Rawat, D. S. (2020). Magnetically recoverable Ni@ CuI hybrid nanocatalysts affording spiropyrroline heterocycles from ketoximes and alkenes. *Asian Journal of Organic Chemistry*, *9*(7), 1059-1064.
- Gulati, U., Rajesh, U. C., Rawat, D. S., & Zaleski, J. M. (2020). Development of magnesium oxide–silver hybrid nanocatalysts for synergistic carbon dioxide activation to afford esters and heterocycles at ambient pressure. *Green Chemistry*, *22*(10), 3170-3177.
- Gulati, U., Rawat, S., & Rawat, D. S. (2020). Transition-metal-free, one-pot, tandem C1- indolylolation and N-alkylation of tetrahydroisoquinoline in biodegradable PEG solvent. *Tetrahedron Letters*, *61*(37), 152304.
- Gupta S., & Biswas, P. (2020). orientational relaxation of poly(propyleneimine) dendrimers at different pH. *The Journal of Physical Chemistry B*, *124*, 4193- 4202.
- Gupta, A., Pal, S., & Uma, S. (2019). Systematic color variation across the solid solution members, Li₂Mn_{1-x}Ti_xO₃ (0.0 ≤ x ≤ 1.0). *Journal of Physics and Chemistry of Solids*, *134*, 238–244.
- Gupta, R., & Borovik, A. S. (2019). Preface to the special issue in honor of Professor Rabindranath Mukherjee on the occasion of his 65th birthday. *Inorganica Chimica Acta*, *486*, 506 – 507.
- Gupta, R., Yadav, M., Gaur, R., Arora, G., Rana, P., Yadav, P., Adholeya, A., & Sharma, R. K. (2019). Silica-coated magnetic-nanoparticle-supported DABCO-derived acidic ionic liquid for the efficient synthesis of bioactive 3,3-di(indolyl)indolin-2-ones. *ACS Omega*, *4*(25), 21529-21539.
- Gupta, S., & Milton, M. D. (2019). Design and synthesis of novel V-shaped AIEE active quinoxalines for acidochromic applications. *Dyes and Pigments*, *165*, 474–487. <https://doi.org/10.1016/j.dyepig.2019.02.038>
- Handa, M., & Biswas, P. (2019). Orientational relaxation of ring polymers in dilute solutions. *Soft Matter*, *15*, 5896-5907.

- Issar, U., Arora, R., Kumari, T., & Kakkar, R. (2019). Combined pharmacophore-guided 3D- QSAR, molecular docking, and virtual screening on bis-benzimidazoles and ter- benzimidazoles as DNA–topoisomerase I poisons. *Structural Chemistry*, *30*, 1185-1201.
- Jain, H., Deswal, N, Joshi, A., Ramachandranb, C. N., & Kumar, R. (2019). Triazole-appended pyrano[2,3-c]pyrazolone based colorimetric chemosensors for recognition of Fe³⁺ ions and their molecular logic gate behavior. *Analytical Methods*, *11*, 3230-3243.
- Jain,H., Joshi, A., Ramachandran, C. M., & Kumar, R. (2019). Synthesis of highly efficient multifunctional copper(II)-pyridyl complex for adsorption and photocatalytic degradation of organic dyes. *ChemistrySelect*. *4*, 4952-4961.
- Jogender, Badhani, B., Mandeep, & Kakkar, R. (2020). A DFT-D2 study on the adsorption of phosgene derivatives and chloromethyl chloroformate on pristine and Fe₄-decorated graphene. *Journal of Molecular Graphics and Modelling*, *101*, 107754. <https://doi.org/10.1016/j.jmgm.2020.107754>
- Jogender, Mandeep, & Kakkar, R. (2020). A DFT-D2 study on Mo_{4-x}Co_x (x = 0–3) cluster-decorated graphene and the adsorption of SO₂F₂ and SOF₂ on Mo₄-decorated graphene. *Journal of Nanoparticle Research*, *22*(9), 285. <https://doi.org/10.1007/s11051-020-05014-2>
- Jogender, Mandeep, Badhani, B., & Kakkar, R. (2020). Adsorption of methyl isocyanate on M₄ (M=Fe, Ni, and Cu) cluster-decorated graphene and vacancy graphene: a DFT-D2 study. *Structural Chemistry*, *31*(5), 1983–1997. <https://doi.org/10.1007/s11224-020-01552-6>
- Joshi, A., Singh, G., & Sharma, R. K. (2020). Engineering multiple defects for active sites exposure towards enhancement of Ni₃S₂ charge storage characteristics. *Chemical Engineering Journal*, *384*, 123364. <https://doi.org/10.1016/j.cej.2019.123364>
- Kaim, V., & Kaur□Ghumaan, S. (2019). Manganese complexes: Hydrogen generation and oxidation. *European Journal of Inorganic Chemistry*, *48*, 5041-5051.
- Kaim, V., Natarajan, M., & Kaur□Ghumaan, S. (2019). Dinuclear manganese carbonyl complexes: Electrocatalytic reduction of protons to dihydrogen. *ChemistrySelect*, *4* (5), 1789-1794.
- Kant, R., Kaur, J., & Mishra, G. K. (2020). Theory for influence of the metal electrolyte interface on heterogeneous electron transfer rate constant: fractional electron transferred transition state approach. *Journal of Physical Chemistry C*, *124*, 2273-2288.
- Kashyap, K., & Kakkar, R. (2019). An insight into selective and potent inhibition of histone deacetylase 8 through induced-fit docking, pharmacophore modeling and QSAR studies. *Journal of Biomolecular Structure and Dynamics*, *38*(1), 48–65. <https://doi.org/10.1080/07391102.2019.1567388>
- Kashyap, K., & Kakkar, R. (2020). Exploring structural requirements of isoform selective histone deacetylase inhibitors: a comparative in silico study. *Journal of Biomolecular Structure and Dynamics*, 1–16. <https://doi.org/10.1080/07391102.2019.1711191>
- Kashyap, K., & Kakkar, R. (2020). Pharmacophore-enabled virtual screening, molecular docking and molecular dynamics studies for identification of potent and selective histone deacetylase 8 inhibitors. *Computers in Biology and Medicine*, *123*, 103850. <https://doi.org/10.1016/j.compbimed.2020.103850>
- Kaur, H., Sharma, S., Aggarwal, P., & Hazra, R. K. (2019). Binding energies and chemical potential of neutral and charged exciton complexes of transition metal dichalcogenides/anisotropic 2-D quantum dots in

magnetic field by exact multi-pole expansion of coulomb correlations *Physica E. Low-dimensional Systems and Nano- structures*, 108, 347-357.

Kaur-Ghumaan, S., Hasche, P., Spannenberg, A., & Beweries, T. (2019). Nickel (II) PE¹CE²P pincer complexes (E= O, S) for electrocatalytic proton reduction. *Dalton Transactions*, 48 (43), 16322-16329.

Kaushik, S., Kaushik, M., Barthwal, R., & Kukreti, S. (2020). Self-association of coralyne: An ordered thermal destacking. *Results in Chemistry*, 2, 100043, 1-10.

Khan, I., Kaushik, R., Tiwari, R. K., Mbomekallé, I., Oliveira, P. D., Matono, T., Ooyama, H. E., Sadakane, M., & Hussain, F. (2019). Self-assembled tetrameric lanthanide-containing germanotungstates [(Ln₂GeW₁₀O₃₈)₄(W₃O₈)(OH)₄(H₂O)₂]²⁶⁻: Syntheses, crystal structure, photoluminescence and electrochemical properties. *ChemistrySelect*, 4(43), 12668-12675. <https://doi.org/10.1002/slct.201903379>

Kishore, N., Kumar, P., Shanker, K., & Verma, A. K. (2019). Human disorders associated with inflammation and the evolving role of natural products to overcome. *European Journal of Medicinal Chemistry*, 179, 272–309.

Komal, Sonia, Kukreti, S., & Kaushik, M. (2019). Exploring the potential of environment friendly silver nanoparticles for DNA interaction: Physicochemical approach. *Journal of Photochemistry and Photobiology B: Biology*, 194, 158-165.

Krishna, Kumari, S., Yadav, D., & Sharma, S. K. (2020). Cu (II) Schiff base complex grafted guar gum: Catalyst for benzophenone derivatives synthesis. *Applied Catalysis A: General*, 601, 117529. <https://doi.org/10.1016/j.apcata.2020.117529>

Kumar, A., & Biswas, P. (2019). Effect of correlated pair mutations in protein misfolding. *The Journal of Physical Chemistry B*, 123, 5069-5078.

Kumar, A., & Biswas, P. (2019). Effect of site directed point mutations on protein misfolding: a simulation study. *Proteins: Structure Function Bioinformatics*, 87, 760-773. <https://doi.org/10.1002/prot25702>

Kumar, A., Bhakuni, K., & Venkatesu, P. (2019). Strategic planning of proteins in ionic liquids: future solvents for the enhanced stability of proteins against multiple stresses. *Physical Chemistry Chemical Physics*, 21(42), 23269–23282. <https://doi.org/10.1039/c9cp04772g>

Kumar, G., Kant, A., Kumar, M., & Masram, D. T. (2019). Synthesis, characterizations and kinetic study of metal organic framework nanocomposite excipient used as extended release delivery vehicle for an antibiotic drug. *Inorganica Chimica Acta*, 496, 119036. <https://doi.org/10.1016/j.ica.2019.119036>

Kumar, G., Kumar, G., & Gupta, R. (2020). Effect of pyridyl donors from organic ligands versus metalloligands on material design. *Inorganic Chemistry Frontiers* <https://doi.org/10.1039/d0qi00768d>

Kumar, G., Mogha, N. K., Kumar, M., Subodh, & Masram, D. T. (2020). NiO nanocomposites/rGO as a heterogeneous catalyst for imidazole scaffolds with applications in inhibiting the DNA binding activity. *Dalton Transactions*, 49(6), 1963–1974. <https://doi.org/10.1039/c9dt04416g>

Kumar, G., Pachisia, S., Kumar, P., Kumar, V., & Gupta, R. (2019). Zn- and Cd-based coordination polymers offering H-bonding cavities: highly selective sensing of S₂O₇²⁻ and Fe³⁺ Ions. *Chemistry – An Asian Journal*, 14, 4594 – 4600.

Kumar, K., Kumar, P., Joshi, P., & Rawat, D. S. (2020). IBX-TfOH mediated oxidation of alcohols to aldehydes and ketones under mild reaction conditions. *Tetrahedron Letters*, 61(15), 151749.

- Kumar, K., Mogha, N. K., Yadav, R., & Venkatesu, P. (2020). Insulin-induced conformational transition of fluorescent copolymers: a perspective of self-assembly between protein and micellar solutions of smart copolymers. *Physical Chemistry Chemical Physics*, 22(17), 9573–9586. <https://doi.org/10.1039/d0cp00645a>
- Kumar, K., Reddicherla, U., Rani, G. M., & Pannuru, V. (2019). How do biological stimuli modulate conformational changes of biomedical thermoresponsive polymer? *Colloids and Surfaces B: Biointerfaces*, 178, 479–487. <https://doi.org/10.1016/j.colsurfb.2019.03.014>
- Kumar, K., Yadav, R., & Venkatesu, P. (2019). Comprehensive insight into the protein–surface biomolecular interactions on a smart material: Complex formation between Poly(N-vinyl Caprolactam) and heme protein. *The Journal of Physical Chemistry B*, 123(29), 6331–6344. <https://doi.org/10.1021/acs.jpcc.9b04521>
- Kumar, L., Boruah, P. K., Das, M. R., & Deka, S. (2019). Superbending (00-1800) and high-voltage operating metal-oxide-based flexible supercapacitor. *ACS Applied Materials Interfaces*, 11, 37665–37674.
- Kumar, M., Kumar, G., Dadure, K. M., & Masram, D. T. (2019). Copper(II) complexes based on levofloxacin and 2N-donor ligands: Synthesis, crystal structures and: In vitro biological evaluation. *New Journal of Chemistry*, 43(38), 15462–15481. <https://doi.org/10.1039/c9nj03178b>
- Kumar, M., Kumar, G., Mogha, N. K., Jain, R., Hussain, F., & Masram, D. T. (2019). Structure, DNA/proteins binding, docking and cytotoxicity studies of copper(II) complexes with the first quinolone drug nalidixic acid and 2,2'-dipyridylamine. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 212, 94–104. <https://doi.org/10.1016/j.saa.2018.12.045>
- Kumar, M., Mishra, G. K., & Kant, R. (2019). Theory for admittance voltammetry of reversible two step electron transfer process with DC bias at rough and fractal electrode. *Electrochimica Acta*, 327, 135024.
- Kumar, M., Mogha, N. K., Kumar, G., Hussain, F., & Masram, D. T. (2019). Biological evaluation of copper(II) complex with nalidixic acid and 2,2'-bipyridine(Bpy). *Inorganica Chimica Acta*, 490, 144–154. <https://doi.org/10.1016/j.ica.2019.03.011>
- Kumar, M., Srivastav, S., & Kant, R. (2020). Influence of electrode roughness on DC biased admittance of quasi-reversible charge transfer with uncompensated solution resistance. *Journal of Electroanalytical Chemistry*, 877, 114609.
- Kumar, M., Verma, S., Kumar, A., Mishra, P. K., Ramabhadran, R. O., Banerjee, S., & Verma, A. K. (2019). Mechanistic insights of Cu(II)-mediated ortho-C-H amination of arenes by capturing fleeting intermediates and theoretical calculations. *Chemical Communications*, 55, 9359–9362.
- Kumar, M., Verma, S., Mishra, P. K., & Verma, A. K. (2019). Cu(II)-mediated ortho-C-H amination of arenes with free amines. *Journal of Organic Chemistry*, 84(12), 8067–8079.
- Kumar, P. K., Jha, I., Sindhu, A., Venkatesu, P., Bahadur, I., & Ebenso, E. E. (2020). Experimental and molecular docking studies in understanding the biomolecular interactions between stem bromelain and imidazolium-based ionic liquids. *Journal of Molecular Liquids*, 297, 111785. <https://doi.org/10.1016/j.molliq.2019.111785>
- Kumar, P., Garg, V., & Verma, A. K. (2019). Azidation vs [3+2]-cycloaddition: Chemoselective reaction of sodium azide towards o-alkynylaldehydes for the synthesis of N-heterocycles. *Tetrahedron Letters*, 60(28), 1854–1859.

- Kumar, P., Garg, V., Kumar, M., & Verma, A. K. (2019). Rh(III)-catalyzed alkynylation: synthesis of functionalized quinolines from aminohydrazones. *Chemical Communications*, 55, 12168–12171.
- Kumar, P., Kandi, S. K., Manohar, S., Mukhopadhyay, K., & Rawat, D. S. (2019). Monocarbonyl curcuminoids with improved stability as antibacterial agents against staphylococcus aureus and their mechanistic studies. *ACS Omega*, 4(1), 675-687.
- Kumar, P., Kandi, S. K., Mukhopadhyay, K., & Rawat, D. S. (2020). Synthesis of novel monocarbonyl curcuminoids, evaluation of their efficacy against MRSA, including ex vivo infection model and their mechanistic studies. *European Journal of Medicinal Chemistry*, 195, 112276.
- Kumar, P., Kumar, V., & Gupta, R. (2020). Dipicolinamide and isophthalamide based fluorescent chemosensors: Recognition and detection of assorted analytes. *Dalton Transactions*, 49, 9544 – 9555.
- Kumar, R., Kumar, V., Mathur, D., Kumar, R., Kumar, A., & Prasad, A. K. (2019). Biocatalyst CAL-B catalyzed synthesis of modified nucleosides: An overview. *Synthetic Communications*, 49, 1659-1678.
- Kumar, R., Ujjval, R., & Thirupathi, N. (2019). Half sandwich electron deficient N,N',N''-triarylguanidinatoruthenium(II) complexes: Syntheses, reactivity studies, and structural aspects. *European Journal of Inorganic Chemistry*, 2019 (31), 3619–3628. <https://doi.org/10.1002/ejic.201900616>
- Kumar, R., Kumar, M., Kumar, V., Kumar, A., Haque, N., Kumar, R., & Prasad, A. K. (2020). Recent progress in the synthesis of C-4'- spironucleosides and its future perspectives. *Synthetic Communications*, 1-28.<https://doi.org/10.1080/00397911.2020.1803914>
- Kumar, S., & Sharma, R.K. (2019). Work function based catalytic activity of metallic nanoparticles for dye degradation. *Catalysis Letters*. 149, 2268. <https://doi.org/10.1007/s10562-019-02744-4>
- Kumar, S., Kukutla, P., Devunuri, N., & Venkatesu, P. (2020). How does cholinium cation surpass tetraethylammonium cation in amino acid-based ionic liquids for thermal and structural stability of serum albumins? *International Journal of Biological Macromolecules*, 148, 615–626. <https://doi.org/10.1016/j.ijbiomac.2020.01.135>
- Kumar, S., Saunthwal, R. K., Saini, K. M., & Verma, A. K. (2019). Dual function of carbon tetrachloride: synthesis of chlorinated heterocycles. *Chemical Communications*, 55, 10721–10724.
- Kumar, V., Kumar, P., Kumar, S., Singhal, D., & Gupta, R. (2019). Turn-on fluorescent sensors for the selective detection of Al³⁺ (and Ga³⁺) and PPI Ions. *Inorganic Chemistry*, 58, 10364 – 10376.
- Kumari, A., Banerjee, A., Saxena, S., Khan, S. A., Sulaniya, I., Satsangi, V. R., Shrivastava, R., Kant, R., & Dass, S. (2019). Morphological influence of electrode/electrolyte interface towards augmenting the efficiency of photoelectrochemical water splitting - A case study on ZnO. *Journal of Power Sources*, 432, 38-47.
- Kumari, A., Satsangi, V. R., Shrivastava, R., Kant, R., & Dass, S. (2019). Influence of 50 keVAr⁺ ion beam irradiation on the morphology of ZnO thin films - a study on the semiconductor/electrolyte interface for improved photoelectrochemical splitting of water. *International Journal of Advances in Science Engineering and Technology*, 7, 30-34.
- Kush, P., & Deka, S. (2019). Multifunctional copper-based quaternary chalcogenide semiconductors toward state-of-the-art energy applications. *ChemNanoMat*, 2019, 5, 373-402.

- Lalwani S., Joshi A., Singh G., & Sharma R. K. (2019). Sulphur doped iron cobalt oxide nanocaterpillars: An electrode for supercapattery with ultrahigh energy density and oxygen evolution reaction. *Electrochimica Acta*, 328, 135076. <https://doi.org/10.1016/j.electacta.2019.135076>
- Lalwani S., Munjal M., Singh G., & Sharma R. K. (2019). Layered nanoblades of iron cobaltite for high performance asymmetric supercapacitors. *Applied Surface Science*, 476, 1025-1034. <https://doi.org/10.1016/j.apsusc.2019.01.184>
- Lalwani S., Sharma, R. K., Singh, G., & Kim, H. (2019). Vanadium-incorporated metallic (1-T) molybdenum sulfidenanoroses for high-energy-density asymmetric supercapacitors. *ChemSusChem*, 13(1), 221-229.
- Maikhuri, V. K., Khatri, V., Kumar, A., Singh, B., & Prasad, A. K. (2020). Synthesis of sugar diene and its Pd-catalyzed transformation into chromanes. *Journal of Organic Chemistry*, 85, 7068-7076.
- Maikhuri, V. K., Vohra, K., Srivastava, S., Kavita, S., & Prasad, A. K. (2019). Click synthesis of N^1 -(β -D-ribofuranosyl)- C^4 -(coumarin-4'-yl)-1,2,3-triazoles. *Synthetic Communications*, 49, 3140-3147.
- Maity, J., Srivastava, S., Rana, R., Shankar, B., Khanna, N., & Prasad, A.K. (2020). Biochemical synthesis of coumarin glycosides: A review. *Journal of Indian Chemical Society*, 97, 117-134.
- Manchanda, P., Achazi, K., Verma, D., Böttcher, C., Haag, R., & Sharma, S. K. (2020). Chemoenzymatic synthesis of D-Glucitol-based non-ionic amphiphilic architectures as nanocarriers. *Polymers*, 12(6), 1421.
- Mandeep, Gulati, A., & Kakkar, R. (2020). DFT study of adsorption of glyphosate pesticide on Pt-Cu decorated pyridine-like nitrogen-doped graphene. *Journal of Nanoparticle Research*, 22(1), 17. <https://doi.org/10.1007/s11051-019-4730-z>
- Mandeep, Gulati, A., & Kakkar, R. (2020). Graphene-based adsorbents for water remediation by removal of organic pollutants: Theoretical and experimental insights. *Chemical Engineering Research and Design*, 153, 21–36. <https://doi.org/10.1016/j.cherd.2019.10.013>
- Mandeep, Sharma, L., & Kakkar, R. (2019). Adsorption of bromonitromethane over graphene based substrates: a density functional theory analysis. *Chemistry Select*, 4(17), 4967–4974. <https://doi.org/10.1002/slct.201900082>
- Marichi, R. B., Goel, S., Tomar, A. K., Sahu, V., Lalwani, S., Singh, G., & Sharma R. K. (2019). Direct hydrothermal treatment of sugarcane juice for 3D oxygen-rich carbon Aerogel/NiCo₂O₄ based supercapacitor. *Material Chemistry and Physics*, 239, 121957. <https://doi.org/10.1016/j.matchemphys.2019.121957>
- Matta, A., Sharma, A. K., Tomar, S., Cao, P., Kumar, S., Balwani, S., Ghosh, B., Prasad, A. K., Eycken, E. V. V., DePass, A. L., Wengel, J., Parmar, V.S., Len, C., & Singh, B. K. (2020). Synthesis and anti-inflammatory activity evaluation of novel chroman derivatives. *New Journal of Chemistry*, 44, 13716-13727
- Maurya, S. S., Bahuguna, A., Khan, S. I., Kumar, D., Kholiya, R., & Rawat, D. S. (2019). N-Substituted aminoquinoline-pyrimidine hybrids: Synthesis, in vitro antimalarial activity evaluation and docking studies. *European Journal of Medicinal Chemistry*, 162, 277-289.
- Meena, V. K., Chaturvedi, S., Sharma, R. K., Mishra, A. K., & Hazari, P. K. (2019). A potent acetylcholinesterase selective and reversible homodimeric agent based on tacrine for theranostics. *Molecular Pharmaceutics*, 16, 2296.

- Mishra, G. K., & Kant, R. (2020). Modular theory for DC-biased electrochemical impedance response of supercapacitor. *Journal of Power Sources*, 473, 228467.
- Mishra, P. K., Verma, S., Kumar, M., Kumar, A., & Verma, A. K. (2019). Harnessing the reactivity of ortho-formyl-arylketones: base-promoted regiospecific synthesis of functionalized isoquinolines. *Chemical Communications*, 55, 8278–8281.
- Mishra, V., Thomas, J. M., Chinnappan, S., & Thirupathi, N. (2019). Homoleptic cis- and trans-palladium(II)bis(guanidinato) complexes derived from N-aryl-N',N''-di(pyridin-2-yl)- and N-aryl-N',N''-bis(6-methylpyridin-2-yl)guanidines: Catalysts for Heck-Mizoroki coupling reactions. *Journal of Organometallic Chemistry*, 892, 1–17. <https://doi.org/10.1016/j.jorganchem.2019.04.009>
- Mittal, A., & Kakkar, R. (2020). Nitric oxide synthases and their inhibitors: A review. *Letters in Drug Design & Discovery*, 17(3), 228–252. <https://doi.org/10.2174/1570180816666190222154457>
- Mittal, A., Devi, S. P., & Kakkar, R. (2020). A DFT study of the conformational and electronic properties of echinatin, a retrochalcone, and its anion in the gas phase and aqueous solution. *Structural Chemistry*. <https://doi.org/10.1007/s11224-020-01598-6>
- Mittal, A., Kumari, S., Parmanand, Yadav, D., & Sharma, S. K. (2019). A new copper complex on graphene oxide: A heterogeneous catalyst for N-arylation and C-H activation. *Applied Organometallic Chemistry*, 34(2), e5362. <https://doi.org/10.1002/aoc.5362>
- Mittal, A., Singh, A. K., Kumar, A., Parmanand, Achazi, K., Haag, R. & Sharma, S. K. (2020). Fabrication of oligo-glycerol based hydrolase responsive amphiphilic nanocarriers. *Polymers for Advanced Technologies*, 31(6), 1208–1217. <https://doi.org/10.1002/pat.4851>
- Mittal, R., & Awasthi, S. K. (2019). Recent Advances in the synthesis of 5-substituted 1H-tetrazoles: A complete Survey (2013-2018). *Synthesis*, 51, 3765- 3783.
- Mittal, R., Mishra, A., & Awasthi, S. K. (2020). A greener approach for the chemoselectiveBoc protection of amines using sulfonated reduced grapheme oxide as a catalyst in metal- and solvent-free conditions. *Synthesis*, 52, 591-601.
- Mogha, N. K., Sindhu, A., & Venkatesu, P. (2020). A biophysical strategy to examine the impact of newly synthesized polymerizable ammonium-based ionic liquids on the structural stability and proteolytic activity of stem bromelain. *International Journal of Biological Macromolecules*, 151, 957–966.
- Mogha, N. K., Yadav, N., Sindhu, A., & Venkatesu, P. (2019). Does poly(ionic liquid) modulate the non-covalent interactions of chicken egg white lysozyme? Elucidation of biomolecular interactions between biomolecules and macromolecular solvents. *New Journal of Chemistry*, 43(42), 16759–16766.
- Nagarajan, R., Pandey, J., & Kumari, P. (2019). Thorium doped and thorium-carbon co doped metastable β -Bi₂O₃. *Solid State Science*, 95, 105938. <https://doi.org/10.1016/j.solidstatesciences.2019.105938>
- Nagpal, M., & Kakkar, R. (2020). Adsorptive degradation of phosmet using hierarchically porous calcium oxide: An experimental and theoretical study. *ChemistrySelect*, 5(3), 1235–1246. <https://doi.org/10.1002/slct.201904740>
- Nagpal, M., & Kakkar, R. (2020). Facile synthesis of mesoporous magnesium oxide–grapheme oxide composite for efficient and highly selective adsorption of hazardous anionic dyes. *Research on Chemical Intermediates*, 46(5), 2497–2521. <https://doi.org/10.1007/s11164-020-04103-0>

- Nagpal, M., & Kakkar, R. (2020). Selective adsorption and separation of toxic cationic dyes using hierarchically porous SDBS modified vaterite microspheres (Hr-SMV). *Journal of Physics and Chemistry of Solids*, 146, 109598. <https://doi.org/10.1016/j.jpcs.2020.109598>
- Narang, P., & Venkatesu, P. (2019). An efficient study to reach physiological temperature with poly(*N*-isopropylacrylamide) in presence of two differently behaving additives. *Journal of Colloid and Interface Science*, 538, 62–74. <https://doi.org/10.1016/j.jcis.2018.11.081>
- Narang, P., & Venkatesu, P. (2019). Efficacy of several additives to modulate the phase behavior of biomedical polymers: A comprehensive and comparative outlook. *Advances in Colloid and Interface Science*, 274, 102042. <https://doi.org/10.1016/j.cis.2019.102042>
- Narang, P., de Oliveira, T. E., Venkatesu, P., & Netz, P. A. (2020). The role of osmolytes in the temperature-triggered conformational transition of poly(*N*-vinylcaprolactam): an experimental and computational study. *Physical Chemistry Chemical Physics*, 22(9), 5301–5313. <https://doi.org/10.1039/c9cp06683g>
- Narang, P., Yadav, N., & Venkatesu, P. (2019). Scrutinizing the effect of various nitrogen containing additives on the micellization behavior of a triblock copolymer. *Journal of Colloid and Interface Science*, 553, 655–665. <https://doi.org/10.1016/j.jcis.2019.06.074>
- Neha, Biswas, P., & Kant, R. (2019). Theory for the dynamics of polymer grafted nanoparticle in solution. *Journal of Physical Chemistry C*, 123, 30657–30665.
- Neha, Katyal, D., & Kant, R. (2019). Anomalous stretching dynamics of tagged monomer of branched polymer in layered random flows. *Journal of Statistical Physics* 177, 936–959.
- Nirwan, S., Chahal, V., & Kakkar, R. (2019). Thiazolidinones: Synthesis, reactivity, and their biological applications. *Journal of Heterocyclic Chemistry*, 56(4), 1239–1253. <https://doi.org/10.1002/jhet.3514>
- Nirwan, S., Chahal, V., & Kakkar, R. (2020). Structure-based virtual screening, free energy of binding and molecular dynamics simulations to propose novel inhibitors of Mtb-MurB oxidoreductase enzyme. *Journal of Biomolecular Structure and Dynamics*, 1–16. <https://doi.org/10.1080/07391102.2020.1712258>
- Olanrewaju, A. A., Fabiyi, F. S., Ibeji, C. U., Kolawole, E. G., & Gupta, R. (2020). Synthesis, spectral, structure and computational studies of novel transition Metal(II) complexes of (*Z*)-((dimethylcarbamothioyl)thio)((*I,I,I*-trifluoro-4-(naphthalen-2-yl)-4-oxobut-2-en-2-yl)oxy). *Journal of Molecular Structure*, 1211, 128057.
- Pachisia, S., & Gupta, R. (2019). Two Hg(II)-based macrocycles offering hydrogen bonding cavities: influence of cavity structure on heterogeneous catalysis. *Crystal Growth & Design*, 19, 6039 – 6047.
- Pandey, S., Kumar, G., & Gupta, R. (2019). Postfunctionalized metalloligand-based catenated coordination polymers: syntheses, structures, and effect of labile sites on catalysis. *Crystal Growth & Design*, 19, 2723 – 2735.
- Panwar, R., Althagafi, I., Shally, Shaw, R., Elagamy, A., Shah, C., Yadav, P., & Pratap, R. (2020). Transition metal free synthesis of multifunctional thiomethylated-benzenes from aryl/heteroaryl/cyclopropyl methyl ketones. *Tetrahedron*, 76(21), 131183. <https://doi.org/10.1016/j.tet.2020.131183>

- Parmanand, Kumari, S., Mittal, A., Kumar, A., Krishna, & Sharma, S. K. (2019). Palladium nanoparticles immobilized on schiff base-functionalized grapheme-oxide: application in carbon-carbon cross-coupling reactions. *ChemistrySelect*, *4*(36), 10828-10837. <https://doi.org/10.1002/slct.201902242>
- Parshad, B., Yadav, P., Kerkhoff, Y., Mittal, A., Achazi, K., Haag, R., & Sharma, S. K. (2019). Dendrimer-based micelles as cyto-compatible nanocarriers. *New Journal of Chemistry*, *43*(30), 11984–11993. <https://doi.org/10.1039/c9nj02612f>
- Parul, & Roy, I. (2019). Gold nanoparticle-enhanced photodynamic therapy from photosensitiser-entrapped ormosil nanoparticles. *Journal of Nanoscience and Nanotechnology*. *19* (11), 6942-6948. <https://doi.org/10.1166/jnn.2019.16719>
- Pokhriyal, M., Yadav, D. K., Pal, S., Uma, S., & Nagarajan, R. (2019). Rapid and one step transformation of LiAlH₄ to inorganic and organic anion intercalated Li-Al layered double hydroxide. *European Journal of Inorganic Chemistry*, 2412-2418.
- Poonia, E., Mishra, P. K., Kiran, V., Sangwan, J., Kumar, R., Rai, P. K., Malik, R., Tomer, V. K., Ahuja, R., Mishra, Y. K. (2019). Aero-gel based CeO₂ nanoparticles: synthesis, structural properties and detailed humidity sensing response. *Journal of Materials Chemistry*, *7*, 5477-5487.
- Prasad, S., Mittal, A., & Sharma, S. K. (2019). Synthesis of novel acrylyl pyranochromen-2-one derivatives and their antibacterial activity evaluation. *Indian Journal of Chemistry*, *58B*(04), 482- 496. http://nopr.niscair.res.in/handle/12345_6789/47062
- Pratap, R., & Yorimitsu, H. (2019). Palladium-catalyzed amination of aryl sulfides and sulfoxides with azaarylamines of poor nucleophilicity. *Synthesis*, *51*(13), 2705–2712. <https://doi.org/10.1055/s-0037-1611732>.
- Purohit, G., & Rawat, D. S. (2019). Hierarchically porous mixed oxide sheetlike copper–aluminumnanocatalyzed synthesis of 2-alkynyl pyrrolidines/piperidines and their ideal green chemistry metrics. *ACS Sustainable Chemistry & Engineering*, *7*(23), 19235- 19245.
- Purohit, G., Kharkwal, A., & Rawat, D. S. (2020). CuIn-ethylxanthate, a “versatile precursor” for photosensitization of graphene-quantum dots and nanocatalyzed synthesis of imidazopyridines with ideal green chemistry metrics. *ACS Sustainable Chemistry & Engineering*, *8*(14), 5544-5557.
- Purohit, G., Rawat, D. S., & Reiser, O. (2020). Palladium nanocatalysts encapsulated on porous silica @ magnetic carbon-coated cobalt nanoparticles for sustainable hydrogenation of nitroarenes, alkenes and alkynes. *ChemCatChem*, *12*(2), 569-575.
- Rana, P., Gaur, R., Gupta, R., Arora, G., Jayashree, A., & Sharma, R. K. (2019). Cross- dehydrogenative C(sp³)–C(sp³) coupling via C–H activation using magnetically retrievable ruthenium-based photoredoxnanocatalyst under aerobic conditions. *Chemical Communications*, *55*(51), 7402-7405.
- Rani, S., Bagchi, D., Pal, U., Kumari, M., Sharma, M., Bera, A., Shabir, J., Pal, S. K., Saha-Dasgupta, T., & Mozumdar, S. (2020). The role of imidazolium-based surface-active ionic liquid to restrain the excited-state intramolecular h-atom transfer dynamics of medicinal pigment curcumin: a theoretical and experimental approach. *ACS Omega*. <https://doi.org/10.1021/acsomega.0c02438>
- Rani, S., Mishra, S., Sharma, M., Nandy, A., & Mozumdar, S. (2019). Solubility and stability enhancement of curcumin in Soluplus® polymeric micelles: a spectroscopic study. *Journal of Dispersion Science and Technology*, *41*(4), 523-536.

- Rao, R. P., Sharma, S., Mehrotra, T., Das, R., Kumar, R., Singh, R., Roy, I., & Basu, T. (2020). Rapid electrochemical monitoring of bacterial respiration for gram-positive and gram-negative microbes: potential application in antimicrobial susceptibility testing. *Analytical Chemistry*, 92 (6), 4266-4274.
- Rashmi, Z. F., Singh, A. K., Achazi, K., Schade, B., Hedtrich, S., Haag, R., & Sharma, S. K. (2020). Non-ionic PEG-oligoglycerol dendron conjugated nano-carriers for dermal drug delivery. *International Journal of Pharmaceutics*, 580, 119212.
- Rawat, M., & Rawat, D. S. (2019). CuI@Al₂O₃ catalyzed synthesis of 2-aminonicotinonitrile derivatives under solvent free condition. *Tetrahedron Letters*, 60(16), 1153-1157.
- Rawat, M., & Rawat, D. S. (2020). CuO@NiO nanocomposite catalyzed synthesis of biologically active indenoisoquinoline derivatives. *ACS Sustainable Chemistry & Engineering*, 8(36), 13701-13712.
- Sachdeva, T., & Milton, M. D. (2019). Logic gate based novel phenothiazine- pyridylhydrazones: Halochromism in solid and solution state. *Dyes and Pigments*, 164, 305-318. <https://doi.org/10.1016/j.dyepig.2019.01.038>
- Sachdeva, T., Low, M. L., Mai, C., Cheong, S. L., Liew, Y. K., & Milton, M. D. (2019). Design, synthesis and characterisation of novel phenothiazine-based triazolopyridine derivatives: evaluation of anti-breast cancer activity on human breast carcinoma. *ChemistrySelect*, 4(43), 12701-12707.
- Saini, K. M., Saunthwal, R. K., Kumar, S., & Verma, A. K. (2019). On water: iodine-mediated direct construction of 1,3-benzothiazines from ortho-alkynylanilines by regioselective 6-exo-dig cyclization. *Organic & Biomolecular Chemistry*, 17, 2657-2662.
- Saini, K. M., Saunthwal, R. K., Kumar, S., & Verma, A. K. (2019). On water: metal-free synthesis of highly functionalized benzothiazolyldiene from ortho-haloanilines. *Journal of Organic Chemistry* 84 (5), 2689-26987.
- Saini, K. M., Saunthwal, R. K., Sushmita, & Verma, A. K. (2020). Transition-metal-free reverse reactivity of (2-alkynyl)-arylaldehydes: assembly of functionalized amino-indinones. *Chemistry-A European Journal*, 26 (5), 1017-1021.
- Saroj, S. K., Pal, S., & Nagarajan, R. (2020). Polyol intercalation in copper substituted zinc hydroxide acetate and evaluation of its adsorptive role towards Congo red dye. *Applied Clay Sciences*, 185, 105411.
- Sethi, A., Pandey, J., Uma, S. & Nagarajan, R. (2020). Luminescence properties of Eu³⁺ and Tb³⁺ doped δ-Bi₂O₃ stabilized by Th⁴⁺ substitution. *Journal of American Ceramic Society*, 103, 1027- 1036.
- Shabir, J., Rani, S., Sharma, M., Garkoti, C., Surabhi, & Mozumdar, S. (2020). Synthesis of dendritic fibrous nanosilica over a cubic core (cSiO₂@DFNS) with catalytically efficient silver nanoparticles for reduction of nitroarenes and degradation of organic dyes. *RSC Advances*, 10(14), 8140-8151.
- Shally, Althagafi, I., Shaw, R., Elagamy, A., Kumar, A., & Pratap, R. (2020). A [5 + 1] annulations strategy for the synthesis of multifunctional biaryls and p-teraryls from 1,6-Michael acceptor ketene dithioacetals. *Organic & Biomolecular Chemistry*, 18(32), 6407-6417. <https://doi.org/10.1039/d0ob00998a>
- Shally, Althagafi, I., Singhal, D., Panwar, R., Shaw, R., Elagamy, A., & Pratap, R. (2019). Base-promoted regioselective synthesis of 1,2,3,4-tetrahydroquinolines and quinolines from N-boc-3-piperidone. *Tetrahedron*, 75(48), 130695.

Shally, Kumar, V., Althagafi, I., Kumar, A., Singhal, D., Kumar, A., Gupta, R., & Pratap, R. (2020). Design and synthesis of new functionalized 8-(thiophen-2-yl)-1,2,3,4- tetrahydroquinolines as turn-off chemosensors for selective recognition of Pd²⁺ ions. *New Journal of Chemistry*, 44, 15559 – 15566.

Shalu, & Uma, S. (2019). Soft-chemistry approach to synthesize Al³⁺, Ga³⁺ and Zr⁴⁺ stabilized ion-exchangeable ruddlesden-popper layered perovskite oxides. *Crystal Growth & Design*, 19, 5019- 5028.

Sharma, A., Yadav, A., Cwiklinski, K., Quaye, E., Aalinkeel, R., Mahajan, S. D., Schwartz, S. A., & Sharma R. K. (2019). In vitro studies of curcumin encapsulated mesoporous Fe-Phenanthroline nanocluster for reduction of Amyloid β -Plaque. *Journal of Drug Delivery Science and Technology* 54, 101314.

Sharma, A., Yadav, A., Gupta, N., Sharma, S., Kakkar, R., Cwiklinski, K., Quaye, E., Mahajan, S. D., Schwartz, S. A., & Sharma, R. K. (2019). Multifunctional mesoporous curcumin encapsulated iron-phenanthroline nanocluster: A new Anti-HIV agent. *Colloids and Surfaces B: Biointerfaces*, 180, 289–297.

Sharma, A., Yadav, A., Sharma, S. K., & Sharma, R. K. (2019) Laser induced morphology change in copper sulphide nanoparticles. *Colloids & Surfaces A: Physicochemical Engineering Aspects* 565, 172.

Sharma, D., Singh, A., Kukreti, S., Pathak, M., Kaur, L., Kaushik, V., & Ojha, H. (2019). Protection by ethyl pyruvate against gamma radiation induced damage in bovine serum albumin. *International Journal of Biological Macromolecules*, 150, 1053-1060.

Sharma, K., Yadav, P., Sharma, B., Pandey, M., & Awasthi, S. K. (2020). Interaction of coumarin triazole analogs to serum albumins: Spectroscopic analysis and molecular docking studies. *Journal of Molecular Recognition*, 33, e2834.

Sharma, R. K., Arora, B., Sharma, S., Dutta, S., Sharma, A., Yadav, S., & Solanki, K. (2020). In situ hydroxyl radical generation using the synergism of the Co–Ni bimetallic centres of a developed nanocatalyst with potent efficiency for degrading toxic water pollutants. *Materials Chemistry Frontiers*, 4(2), 605-620.

Sharma, R. K., Sharma, A., Sharma, S., Dutta, S., Yadav, S., & Arora, B. (2019). Design and exploration of catalytic activity of two-dimensional surface-engineered graphene oxide nanosheets in the transannulation of N-heterocyclic aldehydes or ketones with alkylamines. *ACS Omega*, 4(2), 3146-3158.

Sharma, R. K., Yadav, P., Yadav, M., Gupta, R., Rana, P., Srivastava, A., Zboril, R., Varma, R. S., Antonietti, M., & Gawande, M. B. (2020). Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. *Materials Horizons*, 7(2), 411-454.

Sharma, R. K., Yadav, S., Gupta, R., & Arora, G. (2019). Synthesis of magnetic nanoparticles using potato extract for dye degradation: a green chemistry experiment. *Journal of Chemical Education*, 96(12), 3038-3044.

Sharma, S., & Biswas, P. (2019). Unusual dynamics of hydration water around motor proteins with long-ranged hydrodynamic fluctuations. *Physica A*, 534, 122045.

Sharma, S., Aggarwal, P., & Hazra, R. K. (2020). Full-scale analytical perturbation calculation of He-isoelectronic series with hydrogenic bound states via Green's function expansion (monopole) of Coulomb interactions, *Molecular Physics*, e1770881 (MQM Special Issue, Invited article by German School of Chemistry).

- Sharma, S., Aggarwal, P., Kaur, H., & Hazra, R. K. (2019). Analytical treatment to helium isoelectronic ions via green function expansion of Coulomb interactions: perturbation calculations of ground-state energies with hydrogenic orbitals, *Journal of Indian Chemical Society*, 96, 775-783 (Special Issue, Invited by Indian Chemical Society).
- Sharma, S., Mittal, D., Verma, A. K., & Roy, I. (2019). Copper-gallic acid nanoscale metal-organic framework for combined drug delivery and photodynamic therapy. *ACS Applied Biomaterials*. 2(5), 2092-2101. doi: 10.1021/acsabm.9b00116
- Shaw, R., Althagafi, I., Elagamy, A., Rai, R., Shah, C., Nemaish, V., Singh, H., & Pratap, R. (2020). Transition metal-free synthesis of sterically hindered allylarenes from 5-hexene-2-one. *Organic & Biomolecular Chemistry*, 18(32), 6276–6286. <https://doi.org/10.1039/d0ob01318h>
- Shaw, R., Elagamy, A., Althagafi, I., & Pratap, R. (2020). Synthesis of alkynes from non-alkyne sources. *Organic & Biomolecular Chemistry*, 18(20), 3797–3817. <https://doi.org/10.1039/d0ob00325e>.
- Shrivastava, V., Tripathi, V. K., & Nagarajan, R. (2019). Implications of including a magnetic ion (Cr^{3+} and Fe^{3+}) at the vanadium site in a geometrically frustrated spinel MgV_2O_4 : magnetic and catalytic properties. *Dalton Transactions*, 48, 16661-16670. DOI: 10.1039/c9dt03468d.
- Sindhu, A., Bhakuni, K., Sankaranarayanan, K., & Venkatesu, P. (2019). Implications of imidazolium-based ionic liquids as refolding additives for urea-induced denatured serum albumins. *ACS Sustainable Chemistry & Engineering*, 8(1), 604–612. <https://doi.org/10.1021/acssuschemeng.9b06194>.
- Singh A.P., Kumar, S., & Thirumal, M. (2019). Efficient charge transfer in heterostructures of CdS/NaTaO₃ with improved visible-light driven photocatalytic activity, *ACS Omega* 4 (7), 12175 -12185.
- Singh, A., Bimal, D., Kumar, R., Maikhuri, V.K., Thirumal, M., Senapati, N.N., & Prasad, A.K. (2019). Synthesis and antitubercular activity evaluation of 4-furano-coumarins and 3-furano-chromones. *Synthetic Communications*, 48, 2339-2346.
- Singh, A., Kukreti, R., Sasso, L., & Kukreti, S. (2019). Oxidative stress: Role and response of short guanine tracts at genomic locations. *International Journal of Molecular Science*, 20(17), 4258.
- Singh, A., Kukreti, R., Sasso, L., Kukreti, S. (2019). Oxidative stress: a key modulator in neurodegenerative diseases, *Molecules*, 24, 1583.
- Singh, B., Kumar, S., Maity, J., Roy, I., & Prasad, A.K. (2019). Bamford-Stevens reaction assisted synthesis of styrene C-glycosides. *Synthetic Communications*, 49 (15), 1906- 1912. doi: 10.1080/00397911.2019.1606921
- Singh, P., & Nath, M. (2019). A concise account on eco-friendly synthetic strategies for pyrazole heterocycles. *Current Green Chemistry*, 6(3), 198-209. doi:10.2174/2213346106666191026094131.
- Singh, P., Yadav, P. Mishra, A., & Awasthi, S. K. (2020). A straightforward, green and mechanochemical one-pot multicomponent synthesis of active 2-amino-4H-benzo[b]pyrans via a highly efficient amine functionalized $\text{SiO}_2/\text{Fe}_3\text{O}_4$ catalyst under solvent and waste-free conditions. *ACS Omega*, 5, 4223-4232.
- Singh, S., Singh, S., Sharma, R. K., Kaul, A., Mathur, R., Tomar, S., Varshney, R., & Mishra A. K. (2020). Synthesis and preliminary evaluation of a $^{99\text{m}}\text{Tc}$ labelled deoxyglucose complex $\{[^{99\text{m}}\text{Tc}] \text{DTPA bis(DG)}\}$ as a potential SPECT based probe for tumor imaging. *New J. Chem.*, 44, 3062. doi.org/10.1039/C9NJ04705K
- Singh, U. K., Kumari, M., Wani, F. A., Parray, M. ud. din., Saraswat, J., Venkatesu, P., & Patel, R. (2019). Refolding of acid denatured cytochrome c by anionic surface-active ionic liquid: Choice of anion plays key

role in refolding of proteins. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 582, 123872. <https://doi.org/10.1016/j.colsurfa.2019.123872>

Sonam, Chahal, V., & Kakkar, R. (2020). Theoretical study of the structural features and antioxidant potential of 4-thiazolidinones. *Structural Chemistry*, 31(4), 1599–1608. <https://doi.org/10.1007/s11224-020-01517-9>

Soni, K., Chauhan, M., & Deka, S. (2019). Hydrothermally synthesized CuCo₂S₄ nanosheets as an easily accessible and convenient heterogeneous catalyst for the Sonogashira cross-coupling reactions. *Frontiers in Materials*, 6, 273.

Srivastava, S., Thakur, N., Singh, A., Shukla, P., Maikhuri, V.K., Garg, N., Prasad, A.K., & Pandey, R. (2019). Development of a fused imidazo[1,2-a]pyridine based fluorescent probe of Fe³⁺ and Hg²⁺ in aqueous media and HeLa cells. *RSC Advances*, 9, 29856–29863.

Subodh, Chaudhary K., Prakash K., & Masram D. T. (2020). TiO₂ nanoparticles immobilized organo-reduced graphene oxide hybrid nanoreactor for catalytic applications. *Applied Surface Science*, 509, 144902. doi: 10.1016/j.apsusc.2019.144902

Subodh, Prakash K., & Masram D. T. (2020) A reversible chromogenic covalent organic polymer for gas sensing applications. *Dalton Transactions*, 49(4), 1007–1010. doi: 10.1039/C9DT04788C

Sudheer, Kumar, V., Kumar, P., & Gupta, R. (2020). Detection of Al³⁺ and Fe³⁺ ions by nitrobenzoxadiazole bearing pyridine-2,6-dicarboxamide based chemosensors: Effect of solvents on detection. *New Journal of Chemistry*, 44, 13285 – 13294.

Sushmita, Aggarwal, T., Shibata, N., & Verma, A. K. (2019). Triple bond directed Csp²–N bond formation through N-fluorobenzenesulfonimide as aminating source: One-step transformation of aldehyde into amine; *Chemistry-A European Journal*, 25(70), 16063–16067.

Talwar, P., Gupta, R., Kushwaha, S., Agarwal, R., Saso, L., Kukreti, S., & Kukreti, R. (2019). Viral induced oxidative and inflammatory response in Alzheimer's disease pathogenesis with identification of potential drug candidates: a systematic review using systems biology approach. *Current Neuropharmacology* 17(4), 352–365.

Tan, Z., Sharma, L., Kakkar, R., Meng, T., Jiang, Y., & Cao, M. (2019). Arousing the reactive Fe sites in pyrite (FeS₂) via integration of electronic structure reconfiguration and in situ electrochemical topotactic transformation for highly efficient oxygen evolution reaction. *Inorganic Chemistry*, 58(11), 7615–7627. <https://doi.org/10.1021/acs.inorgchem.9b01017>

Thomas, A. M., Nag, S., Yadav, D. K., Uniyal, S., Uma, S., & Subramanian, Y. (2020). A new empirical potential for zeolite with variable Si/Al ratio: simulations vs. experiments. *Microporous and Mesoporous Materials*, 300, 110119.

Tomar A. K., Joshi A., Atri S., Singh G., & Sharma R. K. (2020). 0D ordered Sr₂CoMoO_{6-δ} double perovskite as high-rate anion intercalation pseudocapacitance. *ACS Applied Materials & Interfaces*, 12 (13) 15128–15137. doi: 10.1021/acsami.9b22766.

Tomar A. K., Singh G., & Sharma R. K. (2019). Charge storage characteristics of mesoporous strontium titanate perovskite aqueous as well as flexible solid-state supercapacitor cell. *Journal of Power Sources*, 426, 223–232. doi: 10.1016/j.jpowsour.2019.04.049

- Tomar, A., Singh, J., Singh, S. P., & Rai, A. K. (2020). Designed synthesis of CuCo₂O₄/CuO nano-composite as a potential anode material for lithium ion batteries. *Physica E: Low-Dimensional Systems and Nanostructures*, *116*, 113736.
- Tomar, R., Bisht, Y., Abhilash, P., & Thirumal, M. (2020). Enhanced dielectric Properties of Ba₃ZnTa_{2-x}Nb_xO₉ in microwave region using tungstic acid, *Phase Transitions*, *93(1)*, 175-182.
- Tripathi, M., Taylor, D., Khan, S. I., Tekwani, B. L., Ponnann, P., Velpandian, T., Das, U. K., & Rawat, D. S. (2019). Hybridization of fluoro-amodiaquine (FAQ) with pyrimidines: synthesis and antimalarial efficacy of FAQ-pyrimidines. *ACS Medicinal Chemistry Letters*, *10(5)*, 714-719.
- Uma, S., Vasilchikova, T., Sobolev, A., Raganyan, G., Sethi, A., Hyun-Joo, K., Whangbo, M-H., Presniakov, I., Glazkova, I., Vasiliev, A., Streltsov, S., & Zvereva, E. (2019). Synthesis and characterization of sodium-iron antimonate Na₂FeSbO₅: One-dimensional antiferromagnetic chain compound with spin- glass ground state. *Inorganic Chemistry*, *58*, 11333-11350.
- Umapathi, R., Khan, I., Coutinho, J. A. P., & Venkatesu, P. (2020). Unravelling the interactions between biomedical thermoresponsive polymer and biocompatible ionic liquids. *Journal of Molecular Liquids*, *300*, 112362. <https://doi.org/10.1016/j.molliq.2019.112362>.
- Umapathi, R., Kumar, K., Rani, G. M., & Venkatesu, P. (2019). Influence of biological stimuli on the phase behaviour of a biomedical thermoresponsive polymer: A comparative investigation of hemeproteins. *Journal of Colloid and Interface Science*, *541*, 1–11. <https://doi.org/10.1016/j.jcis.2019.01.062>.
- Umapathi, R., Kumar, K., Venkatesu, P., & Deenadayalu, N. (2019). Quantifying the influence of ionic liquid on the phase behaviour of a biomedical thermoresponsive polymer: A biophysical experimental approach. *Reactive and Functional Polymers*, *143*, 104327. <https://doi.org/10.1016/j.reactfunctpolym.2019.104327>.
- Umapathi, R., Naidoo, P., Ramjugernath, D., Venkatesu, P., & Bahadur, I. (2019). Investigation of temperature and composition dependence of molecular interactions between phosphonium-based ionic liquid + N, N-dimethylformamide: A study of thermophysical properties. *Journal of Molecular Liquids*, *291*, 110987. <https://doi.org/10.1016/j.molliq.2019.110987>.
- Umapathi, R., Narang, P., Venkatesu, P., & Deenadayalu, N. (2019). Profiling the molecular interactions between a promising thermoresponsive polymer and ionic liquid: A biophysical outlook. *Journal of Molecular Liquids*, *278*, 716–721. <https://doi.org/10.1016/j.molliq.2019.01.087>.
- Venkateshwaran, K., Shrivastava, A., Prasad, A.K., Parmar, V.S., & Dwarakanath, B.S. (2020) Developing polyphenolic acetates as radiation countermeasure agents: Current status and future perspectives. *Drug Discovery Today*, *25*, 781-786.
- Venkateshwaran, K., Shrivastava, A., Agrawala, P.K., Prasad, A.K., Devi, S.C., Manda, K., Parmar, V.S., & Dwarakanath, B.S. (2019). Mitigation of radiation-induced gastro-intestinal injury by the polyphenolic acetate 7,8-diacetoxy-4-methylthiocoumarin in mice. *Scientific Reports*, *14134*.
- Verma, G. K., Rawat, M., & Rawat, D. S. (2019). Cobalt-catalysed C–C bond formation and [2+ 2+ 2] annulation of 1, 3-dicarbonyls to terminal alkynes. *European Journal of Organic Chemistry*, *25*, 4101-4104.
- Verma, S., Kumar, M., & Verma, A. K. (2020). Aza-Henry reaction: Synthesis of nitronaphthylamines from 2-(alkynyl)benzotrioles. *Organic Letters*, *22 (1)*, 130–134.

- Verma, S., Kumar, M., Mishra, P. K., & Verma, A. K. (2019). Metal-free carbonyl- assisted regioselective hydration of alkynes: An access to dicarbonyls, *Organic Letters* 21(13) 5059–5063.
- Vijayan, P., Yadav, S., & Gupta, R. (2020). Ruthenium(II) complexes of pyridine-carboxamide ligands bearing appended benzothiazole/benzimidazole rings: structural diversity and catalysis. *Inorganica Chimica Acta*, 502, 119285.
- Wadi, I., Nath, M., Anvikar, A. R., Singh, P., & Sinha, A. (2019). Recent advances in transmission-blocking drugs for malaria elimination. *Future Medicinal Chemistry*, 11(23), 3047-3088. <https://doi.org/10.4155/fmc-2019-0225>.
- Yadav, A., Sharma, A., & Sharma, R. K. (2019). Mesoporous iron gallate nanocomplex for adsorption and degradation of organic dyes. *Colloids and Surfaces A*, 579, 123694. doi.org/10.1016/j.colsurfa.2019.123694
- Yadav, D. K., Sethi, A., Atri, S., & Uma, S. (2019). New series of honeycomb ordered oxides, $\text{Na}_3\text{M}_2\text{SbO}_6$ (M (II) = Mn, Fe, (Mn, Fe), (Mn, Co)), synthesis, structure and magnetic properties. *Dalton Transactions*, 48, 8955-8965.
- Yadav, D., & Awasthi, S. K. (2020). An unsymmetrical covalent organic polymer for catalytic amide synthesis. *Dalton Transitions*, 49,179-186.
- Yadav, D., & Awasthi, S. K. (2020). Kinetic investigation of pd confined covalent triazine polymer directed reduction of nitroarenes. *Green Chemistry*, 22, 4295- 4303.
- Yadav, D., & Awasthi, S. K. (2020). Pd NPs confined novel covalent organic polymer for catalytic applications. *New Journal of Chemistry*, 44, 1320-1325.
- Yadav, D., Dixit, A. K., Raghothama, S., & Awasthi, S. K. (2020). Ni nanoparticles confined covalent organic polymer directed diaryl-selenides synthesis. *Dalton Transactions*, 49, 12266-12272.
- Yadav, D., Krishna, Sharma, S. K. & Menon, R. S. (2020). Regioselective synthesis of arylsulfonyl heterocycles from bromoallyl sulfones via intramolecular Heck coupling reaction. *Organic & Biomolecular Chemistry*, 18(36), 7188–7192. <https://doi.org/10.1039/d0ob01623c>
- Yadav, D., Sharma, S. K., & Menon, R. S. (2019). Facile synthesis of biarylmethanes and tetrasubstituted arenes via a base-mediated [3 + 3] benzannulation reaction of Morita–Baylis–Hillman adducts and unsaturated sulfones. *Organic & Biomolecular Chemistry*, 17(16), 4073–4076. <https://doi.org/10.1039/c9ob00214f>
- Yadav, G. D., Deepa, & Singh, S. (2019). Prolinamidecatalyzed asymmetric organic transformations. *ChemistrySelect*, 4, 5591-5618.
- Yadav, P., Sharma, B., Sharma, C., Singh, P., & Awasthi, S. K. (2020). Interactions between the antimalarial drug dispiro-tetraoxanes and human serum albumin: a combined study with spectroscopic methods and molecular modeling computational studies. *ACS Omega*, 5, 6472-6480.
- Yadav, P., Yadav, J. K., Agarwal, A., & Awasthi, S. K. (2019). Insight into the interaction of potent antimicrobial chalcone triazole analogs with Human Serum Albumin: Spectroscopy and molecular docking approaches. *RSC Advances*, 9, 31969-31978.
- Yadav, P., Yadav, J. K., Dixit, A. K., Agarwal, A., & Awasthi, S. K. (2019). Insight into the interaction of benzothiazole tethered triazole analogs with Human Serum Albumin: Spectroscopy and molecular docking approaches. *Luminescence*, 34, 812-822.

Yadav, P., Yadav, M., Gaur, R., Gupta, R., Arora, G., Rana, P., Srivastava, A., & Sharma, R. K. (2020). Fabrication of copper-based silica-coated magnetic nanocatalyst for efficient one-pot synthesis of chalcones via A3 coupling of aldehydes-alkynes-amines. *ChemCatChem*, 12, 1–10.

Yadav, R., & Venkatesu, P. (2019). Functionalized carbon nanotubes modulate the phase transition behavior of thermoresponsive polymer via hydrophilic-hydrophobic balance. *Polymer*, 178, 121573. <https://doi.org/10.1016/j.polymer.2019.121573>.

Yadav, R., Aruchamy, K., Mondal, D., & Venkatesu, P. (2020). Biomass-derived carbon helices induced phase transition in poly(N-isopropylacrylamide): A sustainable tailoring of coil-globule transition in thermoresponsive polymer. *Colloids and Surfaces B: Biointerfaces*, 187, 110637. <https://doi.org/10.1016/j.colsurfb.2019.110637>.

Yadav, S., Natarajan, M., Sathiyendiran, M., & Kaur-Ghumaan S. (2020). Electrochemical aspects of restricted rhenium (I)-based supramolecular complexes with semi-rigid benzimidazolyl and rigid hydroxyquinone ligands. *Journal of Chemical Sciences*, 132(1), 1-8.

Yadav, Y., Sharma, D., Kaushik, K., Kumar, V., Jha, A., Prasad, A.K., Len, C., Malhotra, S.V., Wengel, J., & Parmar, V.S. (2019). Synthetic, structural and anticancer activity evaluation studies of novel pyrazolynucleosides. *Molecules*, E3922.

Books

Ram, V.J.; Sethi, A.; Nath, M.; Pratap, R. (2019). *The Chemistry of Heterocycles: Chemistry of Six to Eight Membered N, O, S, P and Se Heterocycles*. Elsevier.

Ram, V.J.; Sethi, A.; Nath, M.; Pratap, R. (2019). *The Chemistry of Heterocycles: Nomenclature and Chemistry of Three to Five Membered Heterocycles*. Elsevier.

Sharma, R.K., Monga, Y., Sharma, S., Yadav, M., Dutta, S., Gaur, R., Gupta, R., & Arora, G. (2019). *Silica-based Organic-inorganic Hybrid Nanomaterials: Synthesis, Functionalization and Applications in the Field of Catalysis (Vol. 4)*. World Scientific.

Sidhwani, I. T., & Sharma, R. K. (2020). *An Introductory Text on Green Chemistry*. Wiley. **Journals**

Department teachers serving as Editor(s)/Member(s) of Editorial Board

Prof. Rita Kakkar: American Journal of Quantitative Spectroscopy; Journal of Biochemistry and Molecular Biology Research (ISSN 2313-7177); Letters in Drug Design and Discovery, Bentham.

Prof. Ashok K. Prasad: Trends in Carbohydrate Research.

Prof. Diwan S. Rawat: Associate Editor, RSC Advances; Associate Editor: Scientific Reports; and Everymans Science; Editorial Board Member: Journal of Biochemical and Molecular Toxicology; Anti-Cancer Agents in Medicinal Chemistry.

Prof. Rajeev Gupta: Member – Editorial Board, Journal of Chemical Sciences; Published by the Indian Academy of Sciences, Bangalore & Springer.

Prof. Rajamani Nagarajan: Indian Journal of Chemistry Section A.

Prof. Sitharaman Uma: Editorial Board Member, Scientific Reports.

Prof. Marilyn D. Milton: Member, Associate Editorial Board, Current Organic Chemistry (2019-2021); Published by Bentham Science Publishers.

Dr. P. Vankatesu: Member of the Editorial Board of the Journal of Molecular Liquids, (Elsevier): Member of the Advisory Board of the Journal of Chemical Thermodynamics, (Elsevier).

Research Projects

DST-SERB, Ramanujan Fellowship Research Grant, 2019, Rs 14 Lakh/-; PI: Alok Kumar Rai DST-BRICS, 2019-2022, Biofunctionaltheranostic nanocomplexes for combination therapy of solid cancer, Rs. 34 Lacs; PI: Indrajit Roy

DST-SERB-DST, 2018-2021, Synthesis,polyoxotungstates, About 35 lakhs; PI: Dr. Firasat Hussain

CSIR, 2019-2021, Sugar mimicking hybrid azasugars: Design, synthesis and their evaluation as glycosidase inhibitors, Rs. 11 Lakhs; PI: Dr. Rakesh Kumar

UGC, 2019, Start-up Research Grant, Rs. 10 Lakhs; PI: Alok Kumar Rai

DST-SERB, 2016-2020, Molecular assemblies and coordination polymers decorated with hydrogen bonds: recognition, binding, and activation of analytes/substrates, Rs. 49,35,040, PI: Prof. Rajiv Gupta

CSIR, 2016-2019, Metal complexes with secondary coordination sphere: recognition and binding of analytes and activation of substrates, Rs. 6,00,000, PI: Prof. Rajiv Gupta

DST-SERB, 2018-21, Physicochemical performance evolution by tuning the growth variables of holey graphene nanoribbon carbon soot derived aerogel based asymmetric supercapacitor, Rs. 31 Lakhs, PI: Dr. Raj Kishore Sharma

DST-Women Scientist Scheme (WOS-A), 2019-2022, Ecofriendly synthesis of novel azaphenothiazine(s) and azonia-spiro compounds and study their biological activities and also study the catalytic behaviour of synthesized azaphenothiazines, Rs 37,30,416.00, PI: Dr. Archana Gupta; Prof M.D. Milton (Mentor)

DST-SERB, 2017-2020, Exploratory synthetic investigation to recognize novel solid oxide materials with an emphasis on layered structures, Rs. 34,28,480.00, PI: Prof S. Uma

DST-SERB, 2017-2020, Hydration pattern of misfolded proteins, Rs 43,39,940, PI: Prof P Biswas

DST-WTI, 2017-2020, Designing and synthesis of highly stable functionalized silica based organic-inorganic hybrid materials/nanomaterials for the online and selective recovery of various metals from different charged wastewater, Rs 47, 27, 000, PI Prof Rakesh Kumar Sharma

DST-DFG International Collaboration, 2017-2020, Chemo-enzymatic synthesis of multivalent dendritic architectures for the control of neurodegenerative disorders, Rs. 38,60,980, PI; Prof Sunil Kumar Sharma:

DST-SERB, 2019-2022, Design of novel approaches for the synthesis of highly functionalized n-heterocycles: an application in total synthesis of isoquinolinealkaloids, Rs 39,00,510, PI Prof Akhilesh K Verma

DST-DAAD, 2019-2021, Synergetic C-H functionalization of arene/heteroarene via sequential transition-metal and photoredox catalysis, Rs. 15,81,000, PI: Prof. Akhilesh K. Verma

DST-SERB, 2017-2020, Electrochemical impedance at rough and porous electrodes: theory and experimental corroboration, Rs 38,50,440, PI: Prof Rama Kant

DST-SERB short-term MATRICS project, 2020-2021, Theoretical model for inactivation kinetics of infectious human corona virus on metal surfaces, Rs.5,50,000, PI: Dr Sandeep Kaur

DST, 2016-2020, New trioxane & tetraoxane derivatives and their in vitro and in vivo anti-plasmodial studies, Rs. 25,00,000, PI: Prof. Satish K. Awasthi

DRDO, 2017 to till date, CARS Research Project entitled “Synthesis of Flame Retardant Polyurethane (PU) based adhesive”. Rs. 44, 37,600.00 Prof. Ashok Kr. Prasad

Patents Filed/Granted

Indian patents

Filed - One

- Indian Patent Filed, No. 201911047433, Calix(94)-crown-6 ether as metaextractants, June 2019. Granted – Two
- Novel high yielding, economical, eco-friendly and selective method for the preparation of deuterated alkyl arenes, Indian Patent No. 341494; Granted on July 14, 2020.
- Single step method for individual synthesis of ortho-, meta- and para-diphenylphosphinoanilines, Indian Patent No. 309321; Granted on March 18, 2019.

National/International MoUs Signed with Indian/Foreign Universities

Erasmus plus Student training and Faculty mobility with the University of Iceland, Iceland

Other Inter-Institutional Collaboration

National

- S.N. Bose Center for Basic Sciences, Kolkata.
- CSIR-NEIST
- CSIR-NCL.

International

- Prof. Zvereva, M.V. Lomonosov Moscow State University, Moscow, Russia.
- DST-DAAD Prof. Oliver Reiser, University of Regensburg, Germany.
- Prof. Henryk Witek, National Chiao Tung University, Taiwan.

Students under Exchange Programme

Inbound

Mr. Sebastian Engl., Ph.D. student under Prof. Oliver Reiser, University of Regensburg, Germany visited University of Delhi, India from 14.10.2010 to 25.11.2019 under DST-DAAD Indo-German exchange

program of the project: “*Synergetic C-H functionalization of Arene/Heteroarenes via Sequential Transition-metal and Photoredox Catalysis*” with German Partner Prof. Dr. Oliver Reiser, Regensburg.

Mr. Deepankar Ghosh, Department of Chemistry, University of Iceland, Iceland visited Department of Chemistry, University of Delhi from 08.07.2019 to 09.09.2019.

Outbound

Ms. Deepa, working under the supervision of Dr. Surendra Singh visited Department of Chemistry, University of Iceland, Iceland from 05.12.2019 to 24.02.2020.

Ms. Anu Sharma, working under the supervision of Dr. Rakesh Kumar Sharma visited USA for six months (January-July, 2020) under Indo-US WISTEMM overseas fellowship supported by DST.

Mr. Manoj Kumar, working under the supervision of Prof. Akhilesh K. Verma visited Germany from 20.11.2019 to 14.01.2020 under DST-DAAD Indo-German exchange program of the project: “*Synergetic C-H functionalization of Arene/Heteroarenes via Sequential Transition-metal and Photoredox Catalysis*” with German Partner Prof. Dr. Oliver Reiser, Regensburg.

Extension and Outreach Activities

Dr. Sandeep Kaur participated in the GYA Science Education Outreach at Francke Foundations Halle, “The Science of Light”, April 2019.

Number of M.Phil/Ph.D. Degrees Awarded

Ph.D. : 36

Faculty Strength

Total : 34

Professors : 19

Associate Professor : 4

Assistant Professors : 10

UGC-Assistant Professor: 1

Other Significant Information

Prof. Diwan S. Rawat developed YouTube lectures on "Organic Spectroscopy"
<https://www.youtube.com/channel/UCd6J69xYw4dvjbxXOTa62AQ>

DEPARTMENT OF ENVIRONMENTAL STUDIES

Major activities and achievements

The Department is engaged in teaching and research in the field of environmental studies. Each year, we admit 62 students to two post-graduate courses (M.Sc. - 36 and M.A. - 26) through an all India entrance test. Students come from varied academic backgrounds straddling various disciplines. Our faculty is

engaged in frontline areas of research in fundamental and applied aspects of ecological, environmental and applied environmental sciences. We also work in socially relevant areas connected to national development and contribute to resolving issues arising from environmental degradation. Our faculty regularly publish their findings in top peer-reviewed journals such as Nature, Science, and other high-impact journals. They also secure extramural research projects, which are used in developing state-of-the-art laboratories and training research scholars. The faculty members are recognized world leaders in their areas, widely collaborate with International experts and are regularly invited to share their research findings through keynote/ plenary lectures at National and International Institutions/conferences.

Honours/Distinctions

- Prof. Inderjit Singh: LEAP (Leadership for Academicians Programme) programme University of Delhi, March 2020
- Prof. Peddisetty Pardha Saradhi: Conferred with Prof. H.S. Srivastava Award (2019)
- Dr David Kothamasi: Awarded Marie Curie Skłodowska Fellowship, 2020

Publications

Alhadi, F., Hamidy, A., Farajallah, A., Munir, M., Atmaja, V.Y., Garg, S., Biju, S.D., and Smith, E.N. (2019). Rediscovery of *Micrylettainornata* (Boulenger, 1890) from Sumatra: redescription, molecular identity and taxonomic implications. *Zootaxa* 4613(1), 111–126.

Arora, J., Suman, L. and Pandit, M.K. (2020). IOPB Chromosome Reports of some western Himalayan plants. *Taxon* 688: 882, E1-E2.

Biju, S.D., Garg, S., Gokulakrishnan, G., Sivaperuman, C., Thammachoti, P., Ren, J., Gopika, C., Bisht, K., Hamidy, A., and Shouche, Y. (2020). New insights on the systematics and reproductive behaviour in tree frogs of the genus *Feihyla*, with description of a new related genus from Asia (Anura, Rhacophoridae). *Zootaxa* 4878(1), 001–055.

Biju, S.D., Garg, S., Kamei, R.G., and Maheswaran, G. (2019). A new *Microhyla* species (Anura: Microhylidae) from riparian evergreen forest in the eastern Himalayan state of Arunachal Pradesh, India. *Zootaxa*, 4674(1), 100–116.

Bossuyt, F., Schulte, L.M., Maex, M., Janssenswillen, S., Novikova, P.Y., Biju, S.D., Van de Peer, Y., Matthijs, S., Roelants, K., Martel, A., and Van Bocxlaer I. (2019). Multiple Independent Recruitment of Sodefrin Precursor-Like Factors in Anuran Sexually Dimorphic Glands. *Molecular Biology and Evolution* 36(9), 1921–1930.

Chen, X., Vanangamudi, A., Wang, J., Jegatheesan, J., Mishra, V., Sharma, R.S., Gray, S.R., Kujawa, J., Kujawski, W., Wicaksana, F. and Dumée, L.F. (2020). Direct contact membrane distillation for effective concentration of perfluoroalkyl substances—Impact of surface fouling and material stability. *Water Research*, 116010.

Das, A., Garg, S., Hamidy, A., Smith, E.N., and Biju, S.D. (2019). A new species of *Micryletta* frog (Microhylidae) from Northeast India. *PeerJ*, 7, e7012.

Deepika, S., Mittal, A., and Kothamasi, D. (2019). HCN producing *Pseudomonas protegens* CHA0 affects intraradical viability of arbuscular mycorrhizal fungus *Rhizophagus irregularis* in *Sorghum vulgare* roots in a greenhouse experiment. *Journal of Basic Microbiology* 59(12), 1229–1237.

Divya, S., Sharmila, P.S., Dinakaran, J., Yamal, G., Rao, K.S., and Pardha-Saradhi, P. (2019). Specific H+ level is crucial for accurate phosphate quantification using ascorbate as a reductant. *Protoplasma* 257: 319–330.

Essl F, Dawson W, Kreft H, Pergl J, Pysek P, van Kleunen M, Weigelt P, Mang T, Dullinger S, Lenzner B, Moser D, Maurel M, Seebens H, Stein A, Weber E, Chatelain C, Inderjit, Genovesi P, Kartesz J, Morozova O, Nishino M, Nowak P, Pagad S, Shu W, Winter M. 2019. Drivers of the relative richness of naturalized and invasive plant species on earth. *AOB Plants*, 11(5), plz051

Garg, S., Kumar, P., Mishra, V., Guijt, R., Singh, P., Dumée, L. F., and Sharma, R. S. (2020). A review on the sources, occurrence and health risks of per-/poly-fluoroalkyl substances (PFAS) arising from the manufacture and disposal of electric and electronic products. *Journal of Water Process Engineering* 38, 101683.

Garg, S., Kumar, P., Singh, S., Yadav, A., Dumée, L. F., Sharma, R. S., and Mishra, V. (2020). *Prosopis juliflora* peroxidases for phenol remediation from industrial wastewater—An innovative practice for environmental sustainability. *Environmental Technology and Innovation*, 100865.

Ghosh, C., Saha, A.R., Dolma, K. (2020). Life in Ladakh (India): the Changpas of Changthang. *International Research Journal of Social Sciences* 9(2), 57–63.

Kaushik, R., Sharma M., Gaurav K., Jagadeeshwari U., Shabbir A., Sasikala Ch, Ramana V., and Pandit M.K. (2000). *Paludisphaera* soil sp. nov., a new member of the family Isosphaeraceae isolated from high altitude soil in the Western Himalaya. *Antonie Van Leeuwenhoek* 113(11), 1663–1674

Kumar, P., Maurya, A., Garg, S., Yadav, A., Mishra, V., and Sharma, R. S. (2020). Dead biomass of *Morganella morgani* acts as an efficient adsorbent to remove Pb (II) from aqueous solution in different aeration–agitation and pH conditions. *SN Applied Sciences* 2(7), 1–10.

Mahony, S., Kamei, R.G., Teeling, E.C., and Biju, S.D. (2020). Taxonomic review of the Asian Horned Frogs (Amphibia: *Megophrys* Kuhl & Van Hasselt) of Northeast India and Bangladesh previously misidentified as *M. parva* (Boulenger), with descriptions of three new species. *Journal of Natural History* 54(1–4), 119–194.

Manish, K. and Pandit, M.K. (2019). Identifying conservation priorities for plant species in the Himalaya in current and future climates: A case study from Sikkim Himalaya, India. *Biological Conservation*, 233, 176–184.

Mishra, V., Sharma, U., Rawat, D., Benson, D., Singh, M., and Sharma, R. S. (2020). Fast-changing life-styles and ecotoxicity of hair dyes drive the emergence of hidden toxicants threatening environmental sustainability in Asia. *Environmental Research*, 184, 109253.

Pandit, M.K. (2020). The Himalaya should be a nature reserve. *Nature*, 583:9.

Palak, B., Ghosh C., Das, S., and Banerjee, B.D. (2019). Spatio-Temporal variations of Indoor Bioaerosols in different Socio-Economic Zones of an Urban Metropolis. *Polish Journal Environmental Studies* 28(6), 4087–4097.

Sarkar, N., Sharma, R.S., and Kaushik, M. (2020). Innovative application of facile single pot green synthesized CuO and CuO@ APTES nanoparticles in nanopriming of *Vigna radiata* seeds. *Environmental Science and Pollution Research* 1–8.

Sarkar, N., Sharma, R.S., and Kaushik, M. (2020). Green synthesis and physiochemical characterization of nickel oxide nanoparticles: Interaction studies with Calf thymus DNA. *Luminescence* 35, 178–186.

Sharma, S., Yadav, S., Chandio, K., Sharma, R. S., Mishra, V., and Saraswathy, K. N. (2019). Protein signatures linking history of miscarriages and metabolic syndrome: a proteomic study among North Indian women. *PeerJ*, 7, e6321.

Sharma, R. S., Karmakar, S., Kumar, P., and Mishra, V. (2019). Application of filamentous phages in environment: A tectonic shift in the science and practice of ecorestoration. *Ecology and Evolution*, 9(4), 2263–2304.

Sharma, R.S., Nayak, S., Malhotra, S., Karmakar, S., Sharma, M., Raiping, S., and Mishra, V. (2019). Rhizosphere provides a new paradigm on the prevalence of lysogeny in the environment. *Soil and Tillage Research*, 195, 104368.

Measey J., Visser V., Dgebuadze Y., Inderjit, Li B., Dechoum, M. S., Ziller S.R., and Richardson DM. (2019). The world needs BRICS countries to build capacity in invasion science. *PLoS Biology* 17(9): e3000404

Singh, S., Malhotra, S., Mukherjee, P., Mishra, R., Farooqi, F., Sharma, R. S., and Mishra, V. (2020). Peroxidases from an invasive Mesquite species for management and restoration of fertility of phenolic-contaminated soil. *Journal of Environmental Management* 256, 109908.

Slate M. L., Tsombou F. M., Callaway R.M., Inderjit and El-Keblawy A. A. 2020. Exotic *Prosopis juliflora* suppresses understory diversity and promotes agricultural weeds more than a native congener. *Plant Ecology* 221, 659-669.

Thakur, A.K., P. Ahmed, R. Singh and Urfi, A.J. (2019). Scope of using surveillance cameras for studying nesting ecology of colonial waterbirds: Painted Storks in National Zoo, Delhi. *Bird-o-soar. Zoo's Print* 34(11), 42–48.

Vashistha, G., Deepika, S., Dhakate, P.M., Khudsar, F.A., and Kothamasi, D. (2020). The effectiveness of microsatellite DNA as a genetic tool in crocodylian conservation. *Conservation Genetics Resources* 12(4), 733–744.

Yadav, A. K., Ghosh, C. and Banerjee, B. D. (2019). A Review on Indoor Air Pollution and Associated Health Impacts with Special Reference to Building Design. *International Research Journal of Environmental Sciences* 8(4), 1–11.

Yadav, R. K., Chatrath, A., Tripathi, K., Gerard, M., Ahmad, A., Mishra, V., and Abraham, G. (2020). Salinity tolerance mechanism in the aquatic nitrogen fixing pteridophyte *Azolla*: a review. *Symbiosis* 1–14.

Journals

Department teachers serving as Editor(s)/Member(s) of Editorial Board

Prof. S. D. Bijju: Academic Editor, Asian Herpetological Research (Publishers: Science Press; Chengdu Institute of Biology, CAS; Asian Herpetological Society, China; Hamadryad: Journal of the Centre for Herpetology, India)

Dr. Gyan Prakash Sharma: Academic editor for PLOS One (Ecology and Environment), Associate Editor for Tropical Ecology (Springer)

Dr. Swati Diwakar: Associate Editor, Tropical Ecology (Springer)

Prof. Pardha-Saradhi P.: Academic Editor, PLoS One; Member, Editorial Board, Physiology & Molecular Biology of Plants, Prof. H.S. Srivastava Foundation for Science and Society, Lucknow; Member, Editorial Board, Phytomorphology, International Society of Plant Morphologists, Delhi.

Research Projects

CEPF, USA: 2009–present, Western Ghats Network of Protected Areas for Threatened Amphibians (WNPATA); 1,20,000 USD; Prof. S.D. Biju

WAPCOS Ltd. Gurgaon: 2019-20, Ecological Study for Upper Sileru Pump Storage Project (pre-monsoon), Andhra Pradesh; 5.16 lakh; Prof. M.K. Pandit

Ministry of Earth Sciences (MOES), Government of India (GOI): 2016-2020, Monitoring Indoor Air Pollution (IAP) in Delhi University Area and assessing its Human Health Impacts; 86,70,500 lakh; Dr. Chirashree Ghosh

Ministry of Health and Family Affairs, Department of Health Research: 2016-2019, Spatio-Temporal Epidemiology of Chronic Respiratory Illnesses in Urban Indian Settlements (STEPCRUISE), 30,63,720lakh; Dr. Chirashree Ghosh

Ministry of Environment, Forest and Climate change (MoEF), Government of India (GOI): 2015-2020, Impact of Environmental Bioaerosol Pollution on Human health: A case control Study for Exacerbation of COPD in North Indian Population; 37,72,216 lakh; Dr. Chirashree Ghosh

MoEF & CC: 2015-2021, Advanced Training in Plant Biosystematics; 48,53,300; Prof. Radhey Shyam Sharma

DST, Technology Mission Division (Energy, Water & Others): 2019-2021, Development of a novel single-stage bioremediation technology for azo dye and aromatic amine aiming for industrial sustainability and environmental safety; 41,03,257; Dr. Vandana Mishra

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 05

Faculty Strength:

Total : **11**

Professors : 5

Associate Professor : 2

Assistant Professors : 4

DEPARTMENT OF GEOLOGY

Major Activities and Achievements

Faculty members of the Department of Geology were extensively involved with research activities during the above period including but not restricted to, GIS-based digital mapping of Pur-Banera metallotect in Rajasthan towards developing a standard methodology for digital structural mapping and its application to

deformed ore deposits, paleopedologic evolution in the Himalayan foreland, and documented for the first time mixed carbonate–siliciclastic sedimentation in the Upper Cretaceous Nilkanth Formation, Garhwal Himalaya. Faculty was also associated with National organizations viz., National Centre for Polar and Ocean Research and Indian National Science Committee on Antarctic Research and facilitated development of policies for scientific research.

Honours/Distinctions

- Prof. GVR Prasad: National Award in Geosciences and Technology, Ministry of Earth Sciences, Govt. of India, New Delhi
- Prof. P.P.Chakraborty: Co-coordinator, Scientific Programme Committee, 36th International Geological Congress
- Prof. N.C.Pant: (i) Deputy Chief Officer, Geosciences Group of the Scientific Committee on Antarctic Research (SCAR) (2017-2020) (ii) Chairman, INSA Committee on SCAR. (iii) Member, Research Advisory Committee, National Centre for Polar and Ocean Research, Goa
- Dr. Vimal Singh: Elected Fellow, Geological Society of India, Appointed Member, IGCP Scientific Board Geohazards Theme

Publications

Amit Kumar and J.P. Shrivastava (2019) Secondary silicates as barrier for carbon capture and storage in Deccan basalt. *Acta Geologica Sinica*. doi:10.1111/1755-6724.14291

Amit Kumar and J.P. Shrivastava (2019) Carbon capture induced changes in Deccan basalt: a mass-balance approach. *Greenhouse Gas Science Technology*. 0:1–23 (2019); DOI: 10.1002/ghg.1923

Amit Kumar and J.P. Shrivastava (2019) Thermodynamic Modelling and Experimental Validation of CO₂ Mineral Sequestration in Mandla Basalt of the Eastern Deccan Volcanic Province, India. *Journal Geological Society of India*. v.93, pp.269-277. Impact Factor: 0.9

Amit Kumar, J.P. Shrivastava (2019) Long-term CO₂ capture-induced calcite crystallographic changes in Deccan basalt, India. *Environmental Earth Sciences* (2019) 78:37 <https://doi.org/10.1007/s12665-019-8378>.

Amit Kumar and J.P. Shrivastava (2019) Thermodynamic Modelling and Experimental Validation of CO₂ Mineral Sequestration in Mandla Basalt of the Eastern Deccan Volcanic Province, India. *Journal of the Geological Society of India*, v. 93, pp. 269-277.

Amit Kumar, J. P. Shrivastava, Meenakshi, Sundeep Chopra, Sattam Chakraborty (2020) Impact glass applied as a standard for long-term performance assessment of Na–Ba borosilicate glass forms in geological environment. *Applied Geochemistry*. <https://doi.org/10.1016/j.apgeochem.2019.104477>.

Amit Kumar, Sucharita Pal and J. P. Shrivastava (2020) Contemporary researches and issues related to Deccan volcanism. *Proceedings of the Indian National Science Academy V. 86 No. 1* (17 pages).

Arora, B.R., P Dimri, D P Dobhal, N C Pant, Milap Sharma, Paramanand Sharma, Satyaprakash Shukla, A L Ramanathan and MelothThamban, 2019, The Himalayan Cryosphere: Appraisal of Climate-Glacier Interlinkages, *Proc Indian Natn Sci Acad* 85 No. 2, pp. 319-342

Arora, D., Pant N., Pandey, M., Chattopadhyay, A., Greenbaum, J., Siegert, M., Bo, S., Blankenship, D., Chalapathi Rao, N. V., Bhandari, A. (2020) Insights into geological evolution of Princess Elizabeth Land, East Antarctica-clues for continental suturing and breakup since Rodinian time. *Gondwana Research* 84, 260–283.

Bibhuti Gogoi, Ashima Saikia, Mansoor Ahmad (2020) Mafic-felsic magma interactions in the Bathani volcanic-plutonic complex of Chotanagpur Granite Gneiss Complex, eastern India: implications for assembly of the Greater Indian Landmass during the Proterozoic. *Episodes* 43(2) 785-810.

Bibhuti Gogoi, Hireya Chauhan, Ashima Saikia (2020) Viscous dilation as a mechanism magma mixing. *Periodico di Mineralogia*, 89, 285-295.

Chattopadhyay, A. (2020) Proterozoic Orogenesis and Crustal Evolution in The Central Indian Tectonic Zone: Current Understanding from Recent Works. *Proceedings of the Indian National Science Academy (PINS A)*, 86, 99-106. doi: 10.16943/ptinsa/2020/49780.

Chattopadhyay, A., Bhattacharjee, D., Srivastava, S. (2020) Neotectonic fault movement and intraplate seismicity in the central Indian shield: A review and reappraisal. *Journal of Mineralogical and Petrological Sciences*, 115, 138–151.

Chattopadhyay, A., Bhattacharjee, D. (2019) Repeated reactivation of the Gavilgarh-Tan Shear Zone, Central India: Implications for the tectonic survival of deep-seated intra-continental fault zones. *Journal of Asian Earth Sciences*, 104051; doi: [https://doi.org/ 10.1016/j.jseas.2019.104051](https://doi.org/10.1016/j.jseas.2019.104051)

Chattopadhyay, A., Bhowmik, S. K., Roy, A. (2020) Tectonothermal evolution of the Central Indian Tectonic Zone and its implications for Proterozoic supercontinent assembly: the current status. *Episodes*, doi: <https://doi.org/10.18814/epiugs/2020/020008> magma mixing. *Periodico di Mineralogia*, 89, 285-295.

Chattopadhyay, A. (2020) Proterozoic Orogenesis and Crustal Evolution in The Central Indian Tectonic Zone: Current Understanding from Recent Works. *Proceedings of the Indian National Science Academy (PINS A)*, 86, 99-106. doi: 10.16943/ptinsa/2020/49780.

Chattopadhyay, A., Bhattacharjee, D., Srivastava, S. (2020) Neotectonic fault movement and intraplate seismicity in the central Indian shield: A review and reappraisal. *Journal of Mineralogical and Petrological Sciences*, 115, 138–151.

Chattopadhyay, A., Bhattacharjee, D. (2019) Repeated reactivation of the Gavilgarh-Tan Shear Zone, Central India: Implications for the tectonic survival of deep-seated intra-continental fault zones. *Journal of Asian Earth Sciences*, 104051; doi: [https://doi.org/ 10.1016/j.jseas.2019.104051](https://doi.org/10.1016/j.jseas.2019.104051)

Chattopadhyay, A., Bhowmik, S. K., Roy, A. (2020) Tectonothermal evolution of the Central Indian Tectonic Zone and its implications for Proterozoic supercontinent assembly: the current status. *Episodes*, doi: <https://doi.org/10.18814/epiugs/2020/020008>

Chakraborty, P.P. and Barkat, R., 2020. A Status Report on Age, Depositional Motif and Stratigraphy of Chhattisgarh, Indravati, Kurnool and Bhima Basins, Peninsular India. *Proc Indian Natn Sci Acad* 86 No. 1 March 2020 pp. 127-136. DOI: 10.16943/ptinsa/ 2020/49801

Chakraborty, P.P., Mukhopadhyay, J., Paul, P.P., Banerjee, D.M., Bera, M.K., 2020. Early atmosphere and hydrosphere oxygenation: Clues from Precambrian paleosols and chemical sedimentary records of India. *Episodes* v. 43, No.1, P. 175-186.

Chakraborty, P.P., Sharma, R. and Kumar, P., 2019. Earthquake-induced soft sediment deformation (SSD) structures from the Bilara limestone formation, Marwar basin, India. *Journal Earth System Science*, 128:162 <https://doi.org/10.1007/s12040-019-1182-x>

Chakraborty, P.P., Tandon, S.K. and Saha, S., 2019. Development of Phanerozoic basins of India. *Journal Asian Earth Science*. V.184, P. 1-9

- Dhiman, H., Prasad, G.V.R. & Goswami, A. (2019) Parataxonomy and palaeobiogeographic significance of dinosaur eggshell fragments from the Upper Cretaceous strata of the Cauvery Basin, South India. *Historical Biology* 31(10), 1310-1322.
- Divyadarshini, A., and Singh, V., (2019). Investigating topographic metrics to decipher structural model and morphotectonic evolution of the Frontal Siwalik Ranges, Central Himalaya, Nepal. *Geomorphology* v. 337; 31-52.
- Fareeduddin, Pant, N.C., Gupta, S., Chakraborty, P.P., Sensharma, S., Jain, A.K., Prasad, G.V.R., Srivastava, P., Rajan, S. and Tiwari, V.M. (2020) The geodynamic evolution of India- an introduction, *Episodes*, 43 (1), 7-18.
- Ghosh, N., Hatui, K., Chattopadhyay, A. (2019) Evolution of fault patterns within a zone of pre-existing pervasive anisotropy during two successive phases of extensions: an experimental study. *Geo-Marine Letters*, doi: <https://doi.org/10.1007/s00367-019-00627-6>
- Haproff, P.J., Zuza, A.V., Yin, A., Harrison, T.M., Manning, C.E., Dubey, C.S., Ding, L., Wu, C., and Chen, J.L., (2019) Geologic framework of the northern Indo-Burma Ranges and lateral correlation of Himalayan-Tibetan lithologic units across the eastern Himalayan syntaxis: *Geosphere*, v. 15, no. 3, p. 856–881.
- Hatui, K., Chattopadhyay, A. (2020) Modification of pre-existing folds in a shear zone: A case study from Kumbhalgarh–Ranakpur area, South Delhi Fold Belt, Rajasthan, India. *Journal of Earth System Science*, 129, 126: doi <https://doi.org/10.1007/s12040-020-01395-z>
- Kumar, A., Ray, Y., Ghosh, R., Bandhopadhyay, S., Singh, V., and Srivastava, P., (2020) Late Quaternary sedimentation history of the Himalaya and its foreland. *Episodes* v. 43(1); 498-510.
- Kumar, R., Kumar, N. Srivastava, P. (2019) Clay mineralogical and geochemical evidences of lateritic weathering at about 2.2 Ga prior to the evolution of life of Earth. *Clay Research* 38 (2): 14-20.
- Mageswaraii G., Sucharita Pal, Meenal Mishra, J. P. Shrivastava (2019) Evidences of felsic volcanism and hydrothermal activities from clays associated with the Palaeoproterozoic Porcellanite Formation of the Vindhyan Supergroup, Central India. *Geochemistry (Chemie der Erde)*. <https://doi.org/10.1016/j.geoch.2019.02.002>.
- Mandal, S., Choudhuri, A., Mondal, I., Sarkar, S., Chakraborty, P.P., Banerjee, S., 2019. Revisiting the boundary between the Lower and Upper Vindhyan, Son valley, India. *Journal Earth System Science*. 128 222.
- Meenakshi, J.P. Shrivastava, Rakesh Chandra (2020) Pedogenically degenerated illite and chlorite lattices aid to palaeoclimatic reconstruction for chronologically constrained (8–130 ka) loess-palaeosols of Dilpur Formation, Kashmir, *India Geoscience Frontier*, <https://doi.org/10.1016/j.gsf.2019.11.007> (15 pages).
- Mishra, S.R., Sharma, A., Chakraborty, P.P., Mohanty, S.P. and Tripathi, S.C., (2020). Mixed carbonate–siliciclastic sedimentation in the Upper Cretaceous Nilkanth Formation, Garhwal Himalaya, India. *J. Earth Syst. Sci.* 129:125 <https://doi.org/10.1007/s12040-020-01383-3>
- Pant, N.C., Singh, P and Jain, A.K. (2020), A relook at the Himalayan metamorphism, Special Issue on Geodynamic Evolution of the Indian Subcontinent – Hadean to Recent, *Episodes*, 43 (1), 369-380.

- Parmar, V., Jamwal, S.S., Prasad, G.V.R. & Palden, L. (2019) An Oligo-Miocene cricetid rodent from the Indus Group, NW Himalaya: Constraints on the age of initiation of continental sedimentation in the India-Asia collision zone. *Journal of Asian Earth Sciences* 190, <https://doi.org/10.1016/j.jseaes.2019.104190>.
- Parmar, V. & Prasad, G.V.R. (2020). Vertebrate evolution on the Indian raft – Biogeographic conundrums. *Episodes* 43 (1), 461-475.
- Priyadarshini, R.K. & Prasad, G.V.R. (2020) New chondrichthyan fauna from the Palaeogene deposits of Barmer district, Rajasthan, western India: Age, palaeoenvironment and intercontinental affinities. *Geobios* 58: 55-72.
- Rahul Mohan, Roy, S.K., Meloth, T., Anilkumar, N., Krishnan, K.P., Sabu, P., Kumar, A., Mahesh, B.S., Patil, S.M., Venkatachalam, S and Pant, N.C., (2020), Recent Indian contributions from the Polar Realm, *Proc. Ind. Nat. Sci. Acad.*, 86, 569-583.
- Saini, H.S., Alok, Apurva, Pant, N.C. (2020) The Lost Saraswati River of Northwestern Indian Plains: Status and way forward, Special Issue on Geodynamic Evolution of the Indian Subcontinent – Hadean to Recent, *Episodes*, 43 (1), 524-534.
- Sarkar, D.P., Ando, Jun-ichi, Das, K., Chattopadhyay, A., Ghosh, G., Shimizu, K., Ohfuji, H. (2020) Serpentinite enigma of the Rakhabdev lineament in western India: Origin, deformation characterization and tectonic implications. *Journal of Mineralogical and Petrological Sciences*, 115
- Sarkar, S., Banerjee, S. and Chakraborty, P.P., 2020 Microbial Mat Structures and role of microbes in Precambrian siliciclastic sedimentation: Evidence from Indian Proterozoic basins. *Episodes* <https://doi.org/10.18814/epiugs/2020/020010>, v. 43, No.1, P. 164-174.
- Sarkar, A., Chattopadhyay, A. (2020) Microstructure and geochemistry of pseudotachylyte veins from Sarwar-Junia Fault Zone, India: Implications for frictional melting process in a seismic fault zone. *Geological Journal*, 1–29. doi: <https://doi.org/10.1002/gj.3900>
- Sharma, M., Divyadarshini, A., and Singh, V., (2019) Morphotectonic evolution of the Siwalik hills between the Yamuna and the Markanda river exits. *Journal of the Geological Society of India* v.94(5); 453-463.
- Shekhar, S., Kumar, P., Chauhan, G., Thakkar M. G., (2019) Conservation and Sustainable Development of Geoheritage, Geopark, and Geotourism: a Case Study of Cenozoic Successions of Western Kutch, India. *Geoheritage*. [10.1007/s12371-019-00362](https://doi.org/10.1007/s12371-019-00362)
- Sucharita Pal and J. P. Shrivastava (2020) Cretaceous/Palaeogene boundary transition induced lattice defects in illite and kaolinite associated with the Um-Sohryngkew river section, Meghalaya, India. *Solid Earth Sciences*. *Solid Earth Sciences*, v. 5, p. 202-222. <https://doi.org/10.1016/j.sesci.2020.06.004>
- Sucharita Pal, Meenakshi, J. P. Shrivastava, Amit Kumar and Bhagya Dev, A. (2019) Evidence of K/PB Transition Linked Crystallographic Defects in the Smectites Associated with the Jhilmili Intertrappean Bed, Central India. *Journal of the Geological Society of India*. v.94, pp.142-148.
- Surendra Kumar Jha, Rashmi Sharma, J. P. Shrivastava (2019) Trace elemental signatures and mineral chemistry of clays associated with the alteration halos of the Paleoproterozoic U mineralization in Bijawars of the Sonrai Basin, Central India *Acta Geochimica* <https://doi.org/10.1007/s11631-019-00363-9>.
- Umamaheswaran, R. Prasad, G.V.R., Rudra, A. & Dutta, S. (2019) Biomarker signatures in Triassic coprolites. *Palaios* 34, 458-467.

Journals

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board

Dr. Vimal Singh: Associate Editor of Himalayan Geology Journal

Research Projects

DST-SERB: 2019-2020, J.C. Bose National Fellowship, Evolution of Vertebrate Fauna in the northward drifting Indian Plate, Rs. 19,00,000/-, Prof. GVR Prasad

MOES: 2019-2022, Age constraints on metamorphic evolution of the trans Himalayas, Rs. 59,06,320/-, Co-PI-Prof. N.C.Pant and Dr. Ashima Saikia

DST-SERB: 2016-2019, Paleogene fossil soils...Implications for the oldest tropical weathering and monsoonal conditions, Indian subcontinent, Rs. 28 lakhs, Prof. Pankaj Srivastava

MOES: 2018-2021, Paleopedological, sedimentological and thermochronological records of climate change and tectonics during the evolution of Siwalik successions, Punjab re-entrant; Rs. 34 lakhs, PI - Prof. Pankaj Srivastava

DST-RFBR: 2019-2021, Quaternary paleoclimate and paleoecology via multiproxy analysis of paleosol sequences across the Russian Plain and Himalaya, Rs. 25.4 Lakhs, PI - Prof. Pankaj Srivastava

DST: Tracking closure of passive margin sag-basin in western Kutch, India: Signature from Terminal Cenozoic succession (Sandhan Formation) through Sequence Stratigraphic Analysis. 18,20,000.00 lakhs, PI- Dr. Pramod Kumar

MOES: 2016-2019, Geochemical flow stratigraphy, age and duration of Deccan volcano sedimentary succession from Koyna Drill-core site, Rs. 53,43,600, Prof. J.P. Srivastava.

CSIR: 2016-2020, Clay organo-molecular studies on late Cretaceous-early Palaeocene succession of the Mahadeo-Cherapunji section and its lateral correlation with the K/Pg layer of the Um-Sohryngkew river section Mehalaya: Palaeoenvironmental implications and K/Pg transition., Rs. 18,00,000, PI - Prof. J.P. Srivastava

Other Inter-Institutional Collaboration

Prof. Partha Pratim Chakraborty: Instrumental in signing MOU between Faculty of Science, University of Delhi and Hiroshima University, Japan; Research collaboration with IIT, Kharagpur, IIT, Mumbai and Hiroshima University, Japan

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 06

M.Phil. : 07

Faculty Strength:

Total : **14**

Professors : 7

Associate Professor : 1

Assistant Professors : 6

Other significant information

The Department is recognized as Centre for Advanced studies (CAS-III) by UGC.

DEPARTMENT OF PHYSICS AND ASTROPHYSICS

Major activities and achievements

The Department maintained its position as the topmost university physics department in the country in QS rankings. It sustained its high quality research as evidenced by about 340 research publications (SCOPUS only) by its faculty and students in international refereed journals during the year. With nearly 600 MSc students and over 180 PhD students along with a current strength about 41 faculty members, the department is one of the largest physics departments in the country. The faculty received several national and international grants and participated in several collaborative projects across the globe. The department hosted various eminent researchers from all over the world, who gave inspiring lectures to motivate our students. The department conducted an extensive exercise to revise its M.Sc. curriculum providing a wide choice of electives including inter-disciplinary subjects to its students. An exclusive department portal, displaying regular updates on its academic and other activities, was successfully launched.

Publications [Total: 340]

Publications in 2020 (Jan 01 – Mar 31)

Ahmed, A., Gola, M., Kumar, A. & Naimuddin, M. 2020, "Development and qualification of triple-GEM detector built with large size single mask foils produced in India", *Journal of Instrumentation*, vol. 15, no. 2.

Ansari, M.A. & Sreenivas, K. 2020, "Detection of rhombo-ortho-tetra-cubic phase transitions on poled Er³⁺ and Sn⁴⁺ doped BaTiO₃ ceramics by up-conversion luminescence", *Materials Letters*, vol. 264.

Aydemir, U., Mandal, T. & Mitra, S. 2020, "Addressing the RD (*) anomalies with an S1 leptoquark from SO(10) grand unification", *Physical Review D*, vol. 101, no. 1.

Batra, K., Sinha, N. & Kumar, B. 2020, "Lead-free 0.95(K_{0.6}Na_{0.4})NbO₃-0.05(Bi_{0.5}Na_{0.5})ZrO₃ ceramic for high temperature dielectric, ferroelectric and piezoelectric applications", *Journal of Alloys and Compounds*, vol. 818.

Bhukkal, S. & Kumar, B. 2020, "Modified CZ technique for the growth of organic crystals having low melting point and high vapour pressure", *Journal of Crystal Growth*, vol. 535.

Boazbou Newmai, M., Pathak, N.K. & Senthil Kumar, P. 2020, "Molecular aspects of oligomer-coupled ultra-small Au nanoparticles", *Journal of Physics and Chemistry of Solids*, vol. 140.

Chakraborty, S., Sharma, H.P., Tiwary, S.S., Majumder, C., Banerjee, P., Ganguly, S., Rai, S., Popli, P., Modi, S., Arumugam, P., Singh, M., Kumar, S., Kumar, A., Bhattacharjee, S.S., Singh, R.P., Muralithar, S. & Palit, R. 2020, "Signature splitting in the positive parity bands of ¹²⁷Xe", *European Physical Journal A*, vol. 56, no. 2.

Chakraborty, S., Sharma, H.P., Tiwary, S.S., Majumder, C., Banerjee, P., Ganguly, S., Rai, S., Pragati, Mayank, Kumar, S., Kumar, A., Palit, R., Bhattacharjee, S.S., Singh, R.P. & Muralithar, S. 2020, "γ-vibration in ¹²⁶Xe: A revisit", *Nuclear Physics A*, vol. 996.

- Chakraborty, S., Sharma, H.P., Tiwary, S.S., Majumder, C., Banerjee, P., Ganguly, S., Rai, S., Pragati, Muralithar, S., Singh, R.P., Bhattacharjee, S.S., Kumar, S., Mayank, Kumar, A. & Palit, R. 2020, "Possible antimagnetic rotational band in ^{127}Xe ", *Journal of Physics G: Nuclear and Particle Physics*, vol. 47, no. 1.
- Dubey, M., Kumar, A., Murugavel, S., Prakash, G.V., Jose, D.A. & Mariappan, C.R. 2020, "Structural and ion transport properties of sodium ion conducting Na_2MTeO_6 (M= MgNi and MgZn) solid electrolytes", *Ceramics International*, vol. 46, no. 1, pp. 663-671.
- Dutt, M., Kaushik, A., Tomar, M., Gupta, V. & Singh, V. 2020, "Synthesis of mesoporous $\alpha\text{-Fe}_2\text{O}_3$ nanostructures via nanocasting using MCM-41 and KIT-6 as hard templates for sensing volatile organic compounds (VOCs)", *Journal of Porous Materials*, vol. 27, no. 1, pp. 285-294.
- Gangopadhyay, A., Misra, K., Hiramatsu, D., Wang, S.-., Hosseinzadeh, G., Wang, X., Valenti, S., Zhang, J., Howell, D.A., Arcavi, I., Anupama, G.C., Burke, J., Dastidar, R., Itagaki, K., Kumar, B., Kumar, B., Li, L., McCully, C., Mo, J., Pandey, S.B., Pellegrino, C., Sai, H., Sahu, D.K., Sanwal, P., Singh, A., Singh, M., Zhang, J., Zhang, T. & Zhang, X. 2020, "Flash Ionization Signatures in the Type Ib Supernova SN 2019uo", *Astrophysical Journal*, vol. 889, no. 2.
- Gill, N., Gupta, V., Tomar, M., Sharma, A.L., Pandey, O.P. & Singh, D.P. 2020, "Improved electromagnetic shielding behaviour of graphene encapsulated polypyrrole-graphene nanocomposite in X-band", *Composites Science and Technology*, vol. 192.
- Goel, S. & Kumar, B. 2020, "A review on piezo-/ferro-electric properties of morphologically diverse ZnO nanostructures", *Journal of Alloys and Compounds*, vol. 816.
- Goel, S., Sinha, N., Yadav, H., Joseph, A.J., Hussain, A. & Kumar, B. 2020, "Optical, piezoelectric and mechanical properties of xylenol orange doped ADP single crystals for NLO applications", *Arabian Journal of Chemistry*, vol. 13, no. 1, pp. 146-159.
- Gupta, G., Sharma, R. & Seshadri, T.R. 2020, "Scalar spectral index in the presence of Primordial Black Holes", *International Journal of Modern Physics D*, vol. 29, no. 3.
- Gupta, R., Gupta, V. & Tomar, M. 2020, "Ferroelectric PZT thin films for photovoltaic application", *Materials Science in Semiconductor Processing*, vol. 105.
- Gupta, R.K., Kar, S. & Nitish, R. 2020, "Aspects of gravitational wave/particle duality: Bulk torsion boundary gravity correspondence", *International Journal of Modern Physics D*, vol. 29, no. 2.
- Gupta, S., Paliwal, A., Gupta, V. & Tomar, M. 2020, "Ferroelectric $\text{Sr}_{0.6}\text{Ba}_{0.4}\text{Nb}_2\text{O}_6$ thin film based broadband waveguide coupled surface plasmon electro-optic modulator", *Optics and Laser Technology*, vol. 122.
- Gupta, S., Paliwal, A., Gupta, V. & Tomar, M. 2020, "Surface Plasmon Resonance assisted optical analysis of Strontium Barium Niobate thin films", *Applied Surface Science*, vol. 501.
- Halder, K.K., Tomar, M., Sachdev, V.K. & Gupta, V. 2020, "Carbonized Charcoal-Loaded PVDF Polymer Composite: A Promising EMI Shielding Material", *Arabian Journal for Science and Engineering*, vol. 45, no. 1, pp. 465-474.
- Hussain, A., Sinha, N., Joseph, A.J., Goel, S., Singh, B., Bdikin, I. & Kumar, B. 2020, "Mechanical investigations on piezo-/ferroelectric maleic acid-doped triglycine sulphate single crystal using nanoindentation technique", *Arabian Journal of Chemistry*, vol. 13, no. 1, pp. 1874-1889.

- Jain, C., Saumya, S., Jain, G., Dalal, R., Agrawal, N., Bhardwaj, A. & Ranjan, K. 2020, "Modeling of neutron radiation-induced defects in silicon particle detectors", *Semiconductor Science and Technology*, vol. 35, no. 4.
- Jain, S., Paliwal, A., Gupta, V. & Tomar, M. 2020, "Long Range Surface Plasmons assisted highly sensitive and room temperature operated NO₂ gas sensor", *Sensors and Actuators, B: Chemical*, vol. 311.
- Jain, S., Paliwal, A., Gupta, V. & Tomar, M. 2020, "Plasmon-Assisted Crystalline Silicon Solar Cell with TiO₂ as Anti-Reflective Coating", *Plasmonics*, .
- Jamdegni, M. & Kaur, A. 2020, "Highly efficient dark to transparent electrochromic electrode with charge storing ability based on polyaniline and functionalized nickel oxide composite linked through a binding agent", *Electrochimica Acta*, vol. 331.
- Joseph, A.J., Sinha, N., Goel, S., Hussain, A. & Kumar, B. 2020, "True-remanent, resistive-leakage and mechanical studies of flux grown 0.64PMN-0.36PT single crystals", *Arabian Journal of Chemistry*, vol. 13, no. 1, pp. 2596-2610.
- Joshi, A., Pandey, J.C., Raj, A., Singh, K.P., Anupama, G.C. & Singh, H.P. 2020, "Optical and X-ray studies of three polars: RX J0859.1+0537, RX J0749.1-0549, and RX J0649.8-0737", *Monthly Notices of the Royal Astronomical Society*, vol. 491, no. 1, pp. 201-214.
- Kingston, S.L., Suresh, K., Thamilaran, K. & Kapitaniak, T. 2020, "Extreme and critical transition events in the memristor based Liénard system", *European Physical Journal: Special Topics*, vol. 229, no. 6-7, pp. 1033-1044.
- Krishna, S., Kumar, R. & Malik, R.P. 2020, "A massive field-theoretic model for Hodge theory", *Annals of Physics*, vol. 414.
- Kumar, A., Sudipta & Murugavel, S. 2020, "Influence of textural characteristics on biomineralization behavior of mesoporous SiO₂-P₂O₅-CaO bioactive glass and glass-ceramics", *Materials Chemistry and Physics*, vol. 242.
- Kumar, P., Saxena, N. & Gupta, V. 2020, "Vital role of Ar ambient pressure in controlled properties of nanocrystalline CdS thin films", *Journal of Materials Science: Materials in Electronics*, .
- Kumar, R., Jain, H., Sriram, S., Chaudhary, A., Khare, A., Ch, V.A.N. & Mondal, D.P. 2020, "Lightweight open cell aluminum foam for superior mechanical and electromagnetic interference shielding properties", *Materials Chemistry and Physics*, vol. 240.
- Kumar, S., Arora, A., Mishra, P. & Mahapatro, A.K. 2020, "Nanofiber Network Formation by 50 keV Ar⁺-Ion Irradiation on GaSb Surface", *Integrated Ferroelectrics*, vol. 205, no. 1, pp. 81-87.
- Kumar, S. & Gupta, D.N. 2020, "Optimization of laser parameters for proton acceleration using double laser pulses in TNSA mechanism", *Laser and Particle Beams*, .
- Kumar, S., Sinha, N., Goel, S. & Kumar, B. 2020, "Effect of xylene orange dye on morphological, optical, piezo-/di-electric and mechanical properties of potassium hydrogen phthalate single crystals", *Vacuum*, vol. 175.
- Malik, C., Kaur, N., Singh, B. & Pandey, A. 2020, "Luminescence properties of tricalcium phosphate doped with dysprosium", *Applied Radiation and Isotopes*, vol. 158.
- Malik, C., Meena, R.K., Rathi, P., Singh, B. & Pandey, A. 2020, "Effect of dopant concentration on luminescence properties of a phosphor K₂CaPO₄: Dy", *Radiation Physics and Chemistry*, vol. 168.

- Malik, C., Pandey, A. & Singh, B. 2020, "Optical Properties of Nano-Crystalline Potassium Calcium Phosphate Doped with Dy", *Integrated Ferroelectrics*, vol. 204, no. 1, pp. 73-80.
- Malik, S., Chand, H. & Seshadri, T.R. 2020, "Role of Intervening Mg II Absorbers on the Rotation Measure and Fractional Polarization of the Background Quasars", *Astrophysical Journal*, vol. 890, no. 2.
- Mandlik, N.T., Rondiya, S.R., Dzade, N.Y., Kulkarni, M.S., Sahare, P.D., Bhatt, B.C. & Dhole, S.D. 2020, "Thermoluminescence, photoluminescence and optically stimulated luminescence characteristics of CaSO₄:Eu phosphor: Experimental and density functional theory (DFT) investigations", *Journal of Luminescence*, vol. 221.
- Mandlik, N.T., Sahare, P.D. & Dhole, S.D. 2020, "Effect of size variation and gamma irradiation on thermoluminescence and photoluminescence characteristics of CaSO₄:Eu micro- and nanophosphors", *Applied Radiation and Isotopes*, vol. 159.
- Mandlik, N.T., Varma, V.B., Kulkarni, M.S., Bhatt, B.C., Sahare, P.D., Raut, S.A., Mathe, V.L., Bhoraskar, S.V. & Dhole, S.D. 2020, "Luminescence and dosimetric characteristics of nanocrystalline Al₂O₃:C synthesized by thermal plasma reactor", *Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms*, vol. 466, pp. 90-101.
- Mangla, O., Roy, S., Annapoorni, S. & Asokan, K. 2020, "A study on defect annealing in GaAs nanostructures by ion beam irradiation", *Bulletin of Materials Science*, vol. 43, no. 1.
- Mukherjee, R., Jaiswal, S., Shukla, M.K., Hakim, A. & Thomas, E. 2020, "Measurement of temperature of a dusty plasma from its configuration", *Contributions to Plasma Physics*, .
- Neelam, Kumar, S., Devi, K.R., Kumar, N., Saha, S., Biswas, S., Singh, P., Babra, F.S., Laskar, M.S.R., Palit, R., Samanta, S., Das, S., Kumar, A. & Srivastava, P.C. 2020, "Intermediate structure and dipole bands in the transitional Ba 134 nucleus", *Physical Review C*, vol. 101(1).
- Negi, S. & Chandra, A. 2020, "Aqueous electrolytes' transport through nanopores of polymeric membrane", *Radiation Effects and Defects in Solids*, vol. 175, no. 3-4, pp. 257-267.
- Pandey, A.K., Natwariya, P.K. & Bhatt, J.R. 2020, "Magnetic fields in a hot dense neutrino plasma and the gravitational waves", *Physical Review D*, vol. 101, no. 2.
- Puri, N., Gupta, R.K., Pattanaik, A.K., Tandon, R.P., Padmavati, M.V.G. & Mahapatro, A.K. 2020, "Materials Characterization of Cobalt Antimonide Nanostructures as Thermoelectric Material", *Integrated Ferroelectrics*, vol. 205, no. 1, pp. 66-71.
- Rajak, D.K., Wagh, P.H., Menezes, P.L., Chaudhary, A. & Kumar, R. 2020, "Critical Overview of Coatings Technology for Metal Matrix Composites", *Journal of Bio- and Tribo-Corrosion*, vol. 6, no. 1.
- Rawal, R., Kharangarh, P.R., Dawra, S., Tomar, M., Gupta, V. & Pundir, C.S. 2020, "A comprehensive review of bilirubin determination methods with special emphasis on biosensors", *Process Biochemistry*, vol. 89, pp. 165-174.
- Sachdeva, D. & Sadhukhan, S. 2020, "Discussing 125 GeV and 95 GeV excess in light radion model DISCUSSING 125 GeV and 95 GeV EXCESS in LIGHT ... DIVYA SACHDEVA and SOUMYA SADHUKHAN", *Physical Review D*, vol. 101, no. 5.
- Saini, R., Kumar, A., Bhatt, G., Kapoor, A., Paliwal, A., Tomar, M. & Gupta, V. 2020, "Lossy Mode Resonance-Based Refractive Index Sensor for Sucrose Concentration Measurement", *IEEE Sensors Journal*, vol. 20, no. 3, pp. 1217-1222.

- Saxena, S., Bagchi, S., Tayyab, M., Rao, B.S., Kumar, S., Gupta, D.N. & Chakera, J.A. 2020, "Scaling up and parametric characterization of two-color air plasma terahertz source", *Laser Physics*, vol. 30, no. 3.
- Sharma, A., Gupta, G. & Das, T.D. 2020, "Dielectric Parameters Study of GaAs_{1-x}Sb_x Alloy from Optical Interband Transition", *Journal of Electronic Materials*, vol. 49, no. 5, pp. 3149-3155.
- Sharma, A., Yadav, K., Shrimali, M.D., Prasad, A. & Kuznetsov, N.V. 2020, "Time varying feedback control on multi-stability in hidden attractor", *European Physical Journal: Special Topics*, vol. 229, no. 6-7, pp. 1245-1255.
- Simon, A. & Naqvi, F. 2020, "Indirect determination of neutron-capture cross sections for Sm isotopes", *Physical Review C*, vol. 101, no. 1.
- Singh, A.K., Dawra, D., Dimri, M., Jha, A.K.S., Pandey, R.K. & Mohan, M. 2020, "Plasma screening effects on the atomic structure of He-like ions embedded in strongly coupled plasma", *Physics Letters, Section A: General, Atomic and Solid State Physics*, vol. 384, no. 12.
- Singh, A.K., Dawra, D., Dimri, M., Jha, A.K.S., Sharma, R. & Mohan, M. 2020, "Relativistic photoionization cross section calculations and resonance parameters for Mg-like Se XXIII", *Radiation Physics and Chemistry*, vol. 168.
- Singh, P., Ram, J., Chauhan, V., Nambissan, P.M.G., Gupta, S.K., Kumar, S., Sharma, S.K., Sahare, P.D. & Kumar, R. 2020, "High dose gamma radiation exposure upon Kapton-H polymer for modifications of optical, free volume, structural and chemical properties", *Optik*, vol. 205.
- Singh, V., Late, D.J. & Rath, S. 2020, "Tunable light emission from chemical vapor deposited two-dimensional MoSe₂ by layer variation and S incorporation", *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, vol. 38, no. 2.
- Sonker, R.K., Yadav, B.C., Gupta, V. & Tomar, M. 2020, "Synthesis of CdS nanoparticle by sol-gel method as low temperature NO₂ sensor", *Materials Chemistry and Physics*, vol. 239.
- Suleman, M., Deraman, M., Hashmi, S.A., Othman, M.A.R., Kumar, Y., Rajouria, S.K. & Jasni, M.R.M. 2020, "Accommodating succinonitrile rotators in micro-pores of 3D nano-structured cactus carbon for assisting micro-crystallite organization, ion transport and surplus pseudo-capacitance: An extreme temperature supercapacitor behavior", *Electrochimica Acta*, vol. 333.
- Sundari, S.S., Kumar, B. & Dhanasekaran, R. 2020, "Dielectric and conductivity properties of flux grown Ce doped NBT-BT single crystals", *Physica B: Condensed Matter*, vol. 582.
- Wadhawan, D. & Das, S. 2020, "Dissipation and quantum noise in chiral circuitry", *Physica E: Low-Dimensional Systems and Nanostructures*, vol. 121.
- Waikar, M.R., Raste, P.M., Sonker, R.K., Gupta, V., Tomar, M., Shirsat, M.D. & Sonkawade, R.G. 2020, "Enhancement in NH₃ sensing performance of ZnO thin-film via gamma-irradiation", *Journal of Alloys and Compounds*, vol. 830.
- Waikar, M.R., Sonker, R.K., Gupta, S., Chakarvarti, S.K. & Sonkawade, R.G. 2020, "Post- γ -irradiation effects on structural, optical and morphological properties of chemical vapour deposited MWCNTs", *Materials Science in Semiconductor Processing*, vol. 110.

Yadav, I., Jain, S., Lamba, S.S., Tomar, M., Gupta, S., Gupta, V., Jain, K.K., Dutta, S. & Chatterjee, R. 2020, "Effect of growth and electrical properties of TiO_x films on microbolometer design", *Journal of Materials Science: Materials in Electronics*, .

Yadav, N., Ritu, Promila & Hashmi, S.A. 2020, "Hierarchical porous carbon derived from eucalyptus-bark as a sustainable electrode for high-performance solid-state supercapacitors", *Sustainable Energy and Fuels*, vol. 4, no. 4, pp. 1730-1746.

Yadav, N., Yadav, N. & Hashmi, S.A. 2020, "Ionic liquid incorporated, redox-active blend polymer electrolyte for high energy density quasi-solid-state carbon supercapacitor", *Journal of Power Sources*, vol. 451.

Bala, N., & Rath, S., "Effect of Oxygen Annealing on the Growth and Magnetic behavior of Sol-Gel Synthesized NiO Nanoparticles", *Materials Today Proc.* <https://doi.org/10.1016/j.matpr.2020.02.605> .

Pandey, R.K., Mishra, P., Kaushik, J.K., Pandey, A., Raman, R., Devarani, D., & Rath, S., "Higher electrical activation of ion-implanted Si over S in GaSb epitaxial layers", *Material Science in Semiconductor Processing* **115** 105107.

Publications in 2019 (Apr 01 – Dec 31)

Ansari, M.A. & Sreenivas, K. 2019, "Effects of disorder activated scattering and defect-induced phase on the ferroelectric properties of BaSn_xTi_{1-x}O₃ (0 ≤ x ≤ 0.28) ceramics", *Ceramics International*, vol. 45, no. 16, pp. 20738-20749.

Ansari, M.A. & Sreenivas, K. 2019, "Light up-conversion and structural properties of Sn and Er³⁺ doped Ba_{0.995}Er_{0.005}(Sn_{0.06}Ti_{0.94})O₃ ceramics", *AIP Conference Proceedings*.

Antil, S., Kumar, M., Lahon, S., Dahiya, S., Ohlan, A., Punia, R. & Maan, A.S. 2019, "Influence of hydrostatic pressure and spin orbit interaction on optical properties in quantum wire", *Physica B: Condensed Matter*, vol. 552, pp. 202-208.

Antil, S., Kumar, M., Lahon, S. & Maan, A.S. 2019, "Pressure dependent optical properties of quantum dot with spin orbit interaction and magnetic field", *Optik*, vol. 176, pp. 278-286.

Arti, Kumar, S., Kumar, P., Walia, R. & Verma, V. 2019, "Improved ferroelectric, magnetic and photovoltaic properties of Pr doped multiferroic bismuth ferrites for photovoltaic application", *Results in Physics*, vol. 14.

Arun, M.T., Choudhury, D. & Sachdeva, D. 2019, "Living orthogonally: quasi-universal extra dimensions", *Journal of High Energy Physics*, vol. 2019, no. 1.

Bajpai, K.K., Sreenivas, K., Gupta, A.K. & Shukla, A.K. 2019, "Cr-doped lead lanthanum zirconate titanate (PLZT) ceramics for pyroelectric and energy harvesting device applications", *Ceramics International*, vol. 45, no. 11, pp. 14111-14120.

Bala, M., Annapoorni, S. & Asokan, K. 2019, "Effect of thermal annealing on structural, electrical and thermoelectric properties of p-type Bi_{0.5}Sb_{1.5}Te₃", *AIP Conference Proceedings*.

- Balendra, Banday, A., Kumar, V., Murugavel, S. & Ramanan, A. 2019, "Strontium-Carboxylate-Based Coordination Polymers: Synthesis, Structure and Dielectric Properties", *ChemistrySelect*, vol. 4, no. 16, pp. 4756-4766.
- Balendra, Banday, A., Tewari, S., Singh, B., Murugavel, S. & Ramanan, A. 2019, "Alkaline-earth metal based coordination polymers assembled from two different V-shaped ligands: Synthesis, structure, and dielectric properties", *Inorganica Chimica Acta*, vol. 495.
- Banday, A., Ali, M., Pandey, R. & Murugavel, S. 2019, "Direct evidence for the influence of lithium ion vacancies on polaron transport in nanoscale LiFePO₄", *Physical Chemistry Chemical Physics*, vol. 21, no. 19, pp. 9858-9864.
- Banerjee, A., Mandal, S., Roy, P., Mukhopadhyay, S., Mukherjee, G., Kumar, M., Jhingan, A. & Palit, R. 2019, "A compact scintillator based position sensitive detector system for gamma ray tracking applications", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 930, pp. 100-104.
- Banerjee, A., Umopathy, G.R., Abhilash, S.R., Ojha, S., Unnati, Kabiraj, D. & Mandal, S. 2019, "Effects of varying ion flux on high vacuum evaporated erbium thin films", *Vacuum*, vol. 165, pp. 68-71.
- Bangruwa, J.S., Kumar, S., Chauhan, A., Kumar, P. & Verma, V. 2019, "Modified Magnetic and Electrical Properties of Perovskite-Spinel Multiferroic Composites", *Journal of Superconductivity and Novel Magnetism*, vol. 32, no. 8, pp. 2559-2569.
- Banu, N., Roy, S., Satpati, B., Singh, S., Bhukta, A., Chakraborty, P., Basu, S. & Dev, B.N. 2019, "Towards x-ray waveguide formation upon ion irradiation of a Co thin film on Si(111)", *Materials Research Express*, vol. 6, no. 5.
- Bassi, M., Bharadvaja, A. & Baluja, K.L. 2019, "Elastic and vibrationally-resolved excitation cross sections for electron impact with MgF radical using R-matrix", *European Physical Journal D*, vol. 73, no. 8.
- Batra, K., Sinha, N. & Kumar, B. 2019, "Flexible lead-free piezo-/ferroelectric Bi 0.5 (Na 0.6 K 0.4) 0.5 TiO 3 ceramic incorporated PDMS polymer composites for energy harvesting application", *Journal of Materials Science: Materials in Electronics*, vol. 30, no. 6, pp. 6157-6165.
- Batra, K., Sinha, N. & Kumar, B. 2019, "Sunset yellow dye doped ammonium dihydrogen phosphate single crystals with enhanced optical, mechanical and piezoelectric properties", *Journal of Materials Science: Materials in Electronics*, vol. 30, no. 16, pp. 14902-14912.
- Bhadola, P. & Deo, N. 2019, *Evolution and Dynamics of the Currency Network*.
- Bharadvaja, A., Kaur, S. & Baluja, K.L. 2019, "A comparative study of electron-impact cross sections of C 4 F 6 isomers from 15 to 5000 eV", *Physics of Plasmas*, vol. 26, no. 6.
- Bharadvaja, A., Kaur, S. & Baluja, K.L. 2019, "Electron-impact cross sections of X₂CO (X = H, F, Cl, Br) from ionization threshold to 5 keV", *European Physical Journal D*, vol. 73, no. 9.
- Bharadvaja, A., Kaur, S. & Baluja, K.L. 2019, "Study of electron collision from bioalcohols from 10 to 5000 eV", *European Physical Journal D*, vol. 73, no. 12.
- Bhardwaj, A., Kanbur, S., He, S., Rejkuba, M., Matsunaga, N., Grijs, R.D., Sharma, K., Singh, H.P., Baug, T., Ngeow, C.-. & Ou, J.-. 2019, "Multiwavelength Period-Luminosity and Period-Luminosity-Color

Relations at Maximum Light for Mira Variables in the Magellanic Clouds", *Astrophysical Journal*, vol. 884, no. 1.

Bhardwaj, A., Konar, P., Mandal, T. & Sadhukhan, S. 2019, "Probing the inert doublet model using jet substructure with a multivariate analysis", *Physical Review D*, vol. 100, no. 5.

Bhardwaj, A., Panwar, N., Herczeg, G.J., Chen, W.P. & Singh, H.P. 2019, "Variability of young stellar objects in the star-forming region Pelican Nebula", *Astronomy and Astrophysics*, vol. 627.

Bhardwaj, S.K., Chauhan, R., Yadav, P., Ghosh, S., Mahapatro, A.K., Singh, J. & Basu, T. 2019, "Bi-enzyme functionalized electro-chemically reduced transparent graphene oxide platform for triglyceride detection", *Biomaterials Science*, vol. 7, no. 4, pp. 1598-1606.

Bhat, M.Y. & Hashmi, S.A. 2019, "Solid-state pseudocapacitors based on MnO₂-nanorod-electrodes and plastic crystal incorporated gel polymer electrolyte: synergistic effect of Li-salt addition in electrolyte and morphology of electrodes", *Journal of Solid State Electrochemistry*, vol. 23, no. 2, pp. 591-606.

Bhat, M.Y., Yadav, N. & Hashmi, S.A. 2019, "Pinecone-derived porous activated carbon for high performance all-solid-state electrical double layer capacitors fabricated with flexible gel polymer electrolytes", *Electrochimica Acta*, vol. 304, pp. 94-108.

Bhattacharya, S., Trivedi, T., Negi, D., Singh, R.P., Muralithar, S., Palit, R., Ragnarsson, I., Nag, S., Rajbanshi, S., Raju, M.K., Parkar, V.V., Mohanto, G., Kumar, S., Choudhury, D., Kumar, R., Bhowmik, R.K., Pancholi, S.C. & Jain, A.K. 2019, "Evolution of collectivity and evidence of octupole correlations in Br 73", *Physical Review C*, vol. 100, no. 1.

Bhogra, A., Masarrat, A., Meena, R., Hasina, D., Bala, M., Dong, C.-., Chen, C.-., Som, T., Kumar, A. & Kandasami, A. 2019, "Tuning the Electrical and Thermoelectric Properties of N Ion Implanted SrTiO₃ Thin Films and Their Conduction Mechanisms", *Scientific Reports*, vol. 9, no. 1.

Bhukkal, S., Sinha, N., Kumar, S. & Kumar, B. 2019, "Anisotropic electrical and optical studies of organic biphenyl single crystal grown by modified Czochralski technique", *Journal of Materials Science: Materials in Electronics*, vol. 30, no. 4, pp. 3909-3920.

Budhiraja, N., Sapna, Kumar, V., Tomar, M., Gupta, V. & Singh, S.K. 2019, "Investigation on Physical Properties of Sn-Modified Cubic Cu₂O Nanostructures", *Journal of Superconductivity and Novel Magnetism*, vol. 32, no. 6, pp. 1671-1679.

Budhiraja, N., Sapna, Kumar, V., Tomar, M., Gupta, V. & Singh, S.K. 2019, "Multifunctional CuO Nanosheets for High-Performance Supercapacitor Electrodes with Enhanced Photocatalytic Activity", *Journal of Inorganic and Organometallic Polymers and Materials*, vol. 29, no. 4, pp. 1067-1075.

Chakraborty, S., Sharma, H.P., Tiwary, S.S., Majumder, C., Banerjee, P., Ganguly, S., Rai, S., Pragati, Mayank, Kumar, S., Kumar, A., Bhattacharjee, S.S., Singh, R.P. & Muralithar, S. 2019, "Search for the 23/2+ isomeric state in 125 Te", *EPL*, vol. 125, no. 5.

Channey, K.S. & Kumar, S. 2019, "Two simple textures of the magic neutrino mass matrix", *Journal of Physics G: Nuclear and Particle Physics*, vol. 46, no. 1.

Chaudhary, A., Teotia, S., Kumar, R., Gupta, V., Dhakate, S.R. & Kumari, S. 2019, "Multi-component framework derived SiC composite paper to support efficient thermal transport and high EMI shielding performance", *Composites Part B: Engineering*, vol. 176.

- Chauhan, V., Gupta, T., Singh, P., Sahare, P.D., Koratkar, N. & Kumar, R. 2019, "Influence of 120 MeV S 9+ ion irradiation on structural, optical and morphological properties of zirconium oxide thin films deposited by RF sputtering", *Physics Letters, Section A: General, Atomic and Solid State Physics*, vol. 383, no. 9, pp. 898-907.
- Chothe, H.R., Dutta, A. & Sur, S. 2019, "Cosmological dark sector from a mimetic-metric-torsion perspective", *International Journal of Modern Physics D*, vol. 28, no. 15.
- Choudhari, T. & Deo, N. 2019, "Effect of hexagonal warping of the Fermi surface on the thermoelectric properties of a topological insulator irradiated with linearly polarized radiation", *Physical Review B*, vol. 100, no. 3.
- Choudhary, S., Annapoorni, S. & Malik, R. 2019, "Evolution and growth mechanism of hexagonal ZnO nanorods and their LPG sensing response at low operating temperature", *Sensors and Actuators, A: Physical*, vol. 293, pp. 207-214.
- Choudhury, D., Kumar, N. & Kundu, A. 2019, "Search for an opposite sign muon-tau pair and a b -jet at the LHC in the context of flavor anomalies", *Physical Review D*, vol. 100, no. 7.
- Choudhury, D. & Sachdeva, D. 2019, "Model independent analysis of MeV scale dark matter. II. Implications from e-e+ colliders and direct detection", *Physical Review D*, vol. 100, no. 7.
- Choudhury, D. & Sachdeva, D. 2019, "Model independent analysis of MeV scale dark matter: Cosmological constraints", *Physical Review D*, vol. 100, no. 3.
- Choudhury, S.R. & Mahajan, S. 2019, "Direct calculation of time varying Aharonov-Bohm effect", *Physics Letters, Section A: General, Atomic and Solid State Physics*, vol. 383, no. 21, pp. 2467-2471.
- Dahiya, A. & Singh, S.S. 2019, "Equation of state of a PNJL model with chemically equilibrium QGP", *Indian Journal of Pure and Applied Physics*, vol. 57, no. 9, pp. 664-667.
- Dar, Z.A., Kaur, D., Kumar, S. & Naimuddin, M. 2019, "Independent measurement of muon neutrino and antineutrino oscillations at the INO-ICAL experiment", *Journal of Physics G: Nuclear and Particle Physics*, vol. 46, no. 6.
- Das Gupta, P. 2019, "Comets, historical records and vedic literature", *Astrophysics and Space Science Proceedings*, pp. 79.
- Das, D. 2019, "Lepton flavor violating $\Lambda b \rightarrow \Lambda \ell_1 \ell_2$ decay", *European Physical Journal C*, vol. 79, no. 12.
- Das, D. 2019, "Model independent new physics analysis in $\Lambda b \rightarrow \Lambda(\rightarrow n\pi)\ell^+\ell^-$ decay", *Springer Proceedings in Physics*, pp. 71.
- Das, D., Kindra, B., Kumar, G. & Mahajan, N. 2019, " $B \rightarrow K_2^*(1430)^{\pm}$ distributions at large recoil in the Standard Model and beyond", *Physical Review D*, vol. 99, no. 9.
- Dastidar, R., Misra, K., Singh, M., Sahu, D.K., Pastorello, A., Gangopadhyay, A., Tomasella, L., Benetti, S., Terreran, G., Sanwal, P., Kumar, B., Singh, A., Kumar, B., Anupama, G.C. & Pandey, S.B. 2019, "SN 2016B a.k.a. ASASSN-16ab: A transitional Type II supernova", *Monthly Notices of the Royal Astronomical Society*, vol. 486, no. 2, pp. 2850-2872.
- Dastidar, R., Misra, K., Valenti, S., Burke, J., Hosseinzadeh, G., Gangopadhyay, A., Andrew Howell, D., Singh, M., Arcavi, I., Kumar, B., McCully, C., Sanwal, P. & Pandey, S.B. 2019, "SN 2015an: A normal

- luminosity type II supernova with low expansion velocity at early phases", *Monthly Notices of the Royal Astronomical Society*, vol. 490, no. 2, pp. 1605-1619.
- Datta, A., Waite, J. & Sachdeva, D. 2019, "Unified explanation of $b \rightarrow s\mu^+\mu^-$ anomalies, neutrino masses, and $B \rightarrow \pi K$ puzzle", *Physical Review D*, vol. 100, no. 5.
- Deb, S., Kurbah, K., Singh, H.P., Kanbur, S.M., Ngeow, C.-., Medhi, B.J. & Kumar, S. 2019, "Morphology of the Small Magellanic Cloud using multiwavelength photometry of classical Cepheids", *Monthly Notices of the Royal Astronomical Society*, vol. 489, no. 3, pp. 3725-3738.
- Dewan, S., Tomar, M., Kapoor, A.K., Tandon, R.P. & Gupta, V. 2019, "ZnO nanostructure-assisted growth of (0002)-oriented GaN thin films by laser molecular beam epitaxy", *Journal of Photonics for Energy*, vol. 9, no. 2.
- Dewan, S., Tomar, M., Tandon, R.P. & Gupta, V. 2019, "In-situ and post deposition analysis of laser MBE deposited GaN films at varying nitrogen gas flow", *Vacuum*, vol. 164, pp. 72-76.
- Dhawan, R., Kumar, R., Chaudhary, A., Dhawan, S.K., Dhakate, S.R. & Kumari, S. 2019, "Investigation on pitch derived mesocarbon spheres based metal composites for highly efficient electromagnetic interference shielding", *Composites Part B: Engineering*, vol. 175.
- Dhull, N., Kaur, G., Gupta, V. & Tomar, M. 2019, "Highly sensitive and non-invasive electrochemical immunosensor for salivary cortisol detection", *Sensors and Actuators, B: Chemical*, vol. 293, pp. 281-288.
- Dhull, N., Kaur, G., Jain, P., Mishra, P., Singh, D., Ganju, L., Gupta, V. & Tomar, M. 2019, "Label-free amperometric biosensor for Escherichia coli O157:H7 detection", *Applied Surface Science*, vol. 495.
- Dhull, N., Nidhi, Gupta, V. & Tomar, M. 2019, "Antimicrobial properties of metallic nanoparticles: A qualitative analysis", *Materials Today: Proceedings*, pp. 155.
- Dixit, S., Sharma, A., Prasad, A. & Shrimali, M.D. 2019, "Dynamics of nonlinear oscillator with transient feedback", *International Journal of Dynamics and Control*, vol. 7, no. 3, pp. 1015-1020.
- Dutta, S., Goyal, A. & Singh, M.P. 2019, "Lepto-philic 2-HDM + singlet scalar portal induced fermionic dark matter", *Journal of High Energy Physics*, vol. 2019, no. 7.
- Gaur, A., Phogat, A., Rafik, M., Kumar, A. & Naimuddin, M. 2019, "Testing and Integration of Front End Electronics for INO-ICAL RPCs", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 936, pp. 366-367.
- Gill, N., Sharma, A.L., Gupta, V., Tomar, M., Pandey, O.P. & Singh, D.P. 2019, "Enhanced microwave absorption and suppressed reflection of polypyrrole-cobalt ferrite-graphene nanocomposite in X-band", *Journal of Alloys and Compounds*, vol. 797, pp. 1190-1197.
- Goel, S. & Kumar, B. 2019, "Hierarchical Sm-doped ZnO nanorod-nanosheet architecture: dielectric and ferroelectric studies", *Applied Physics A: Materials Science and Processing*, vol. 125, no. 5.
- Goel, S. & Kumar, B. 2019, "Lead-free high Tc ferroelectric material: Hierarchical Dy-doped ZnO architectures co-assembled by 1D nanorods and 2D nanosheets", *Journal of Alloys and Compounds*, vol. 801, pp. 626-639.
- Goel, S., Sinha, N., Hussain, A., Joseph, A.J. & Kumar, B. 2019, "Di-/piezo-/ferro-electric characterizations of 3D hierarchical sisal-like $\text{Eu}^{3+}/\text{Gd}^{3+}$ co-doped ZnO micro-flowers assembled with 1D nanopencils", *Ionics*, vol. 25, no. 3, pp. 1373-1386.

Goel, S., Sinha, N. & Kumar, B. 2019, "3D hierarchical Ho-doped ZnO micro-flowers assembled with nanosheets: A high temperature ferroelectric material", *Physica E: Low-Dimensional Systems and Nanostructures*, vol. 105, pp. 29-40.

Goel, S., Sinha, N., Yadav, H. & Kumar, B. 2019, "On the prediction of external shape of ZnO nanocrystals", *Physica E: Low-Dimensional Systems and Nanostructures*, vol. 106, pp. 291-297.

Gola, M., Malhotra, S., Kumar, A. & Naimuddin, M. 2019, "Stability tests performed on the triple GEM detector built using commercially manufactured GEM foils in India", *Journal of Instrumentation*, vol. 14, no. 8.

Gola, M., Malhotra, S., Shah, A., Ahmed, A., Kumar, A. & Naimuddin, M. 2019, "Performance of the triple GEM detector built using commercially manufactured GEM foils in India", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, .

Gottardo, A., Valiente-Dobón, J.J., Benzoni, G., Morales, A.I., Gadea, A., Lunardi, S., Boutachkov, P., Bruce, A.M., Górska, M., Grebosz, J., Pietri, S., Podolyák, Z., Pfützner, M., Regan, P.H., Rudolph, D., Weick, H., Alcántara Núñez, J., Algora, A., Al-Dahan, N., De Angelis, G., Ayyad, Y., Alkhomashi, N., Allegro, P.R.P., Bazzacco, D., Benlliure, J., Bowry, M., Bracco, A., Bunce, M., Camera, F., Casarejos, E., Cortes, M.L., Crespi, F.C.L., Corsi, A., Denis Bacelar, A.M., Deo, A.Y., Domingo-Pardo, C., Doncel, M., Dombradi, Z., Engert, T., Eppinger, K., Farrelly, G.F., Farinon, F., Geissel, H., Gerl, J., Goel, N., Gregor, E., Habermann, T., Hoischen, R., Janik, R., Klupp, S., Kojouharov, I., Kurz, N., Lenzi, S.M., Leoni, S., Mandal, S., Menegazzo, R., Mengoni, D., Million, B., Napoli, D.R., Naqvi, F., Nociforo, C., Prochazka, A., Prokopowicz, W., Recchia, F., Ribas, R.V., Reed, M.W., Sahin, E., Schaffner, H., Sharma, A., Sitar, B., Siwal, D., Steiger, K., Strmen, P., Swan, T.P.D., Szarka, I., Ur, C.A., Walker, P.M., Wieland, O., Wollersheim, H.-., Nowacki, F. & Maglione, E. 2019, "New spectroscopic information on Tl 211,213: A changing structure beyond the N=126 shell closure", *Physical Review C*, vol. 99, no. 5.

Goyal, A., Islam, R. & Kumar, M. 2019, "Dark matter in the Randall-Sundrum model with non-universal coupling", *Journal of High Energy Physics*, vol. 2019, no. 10.

Goyal, R., Lamba, S. & Annapoorni, S. 2019, "Modelling of strain induced magnetic anisotropy in Au additive FePt thin films", *Progress in Natural Science: Materials International*, vol. 29, no. 5, pp. 517-524.

Gupta, D., Baluja, K.L. & Song, M.-. 2019, "Vibrationally resolved excitation, dissociation, and rotational cross sections of NH radical by electron-impact using the R-matrix method", *Physics of Plasmas*, vol. 26, no. 6.

Gupta, D., Song, M.-., Choi, H., Kwon, D.-., Baluja, K.L. & Tennyson, J. 2019, "R-matrix study for electron scattering of beryllium dihydride for fusion plasma", *Journal of Physics B: Atomic, Molecular and Optical Physics*, vol. 52, no. 6.

Gupta, D.N., Kant, N. & Singh, K.P. 2019, "Electron acceleration by a radially polarized laser pulse in the presence of an intense pulsed magnetic field", *Laser Physics*, vol. 29, no. 1.

Gupta, R., Chakraborty, K., Vikar Ahmad, C., Ghosh, C. & Verma, P. 2019, "Elemental Constitution Detection of Environmental Samples of Delhi Using XRF Spectroscopy", *Springer Proceedings in Physics*, pp. 199.

- Gupta, R., Gupta, V. & Tomar, M. 2019, "Structural and dielectric properties of PLD grown BST thin films", *Vacuum*, vol. 159, pp. 69-75.
- Gupta, R., Rana, L., Sharma, A., Gupta, V. & Tomar, M. 2019, "Fabrication of micro-cantilever and its theoretical validation for energy harvesting applications", *Microsystem Technologies*, vol. 25, no. 11, pp. 4249-4256.
- Gupta, S., Agarwal, D.C., Sivaiah, B., Amrithpandian, S., Asokan, K., Dhar, A., Panigrahi, B.K., Avasthi, D.K. & Gupta, V. 2019, "Enhancement in thermoelectric properties due to Ag nanoparticles incorporated in Bi₂Te₃ matrix", *Beilstein Journal of Nanotechnology*, vol. 10, pp. 634-643.
- Gupta, S., Kumar, A., Gupta, V. & Tomar, M. 2019, "Electrical properties of Strontium Barium Niobate (Sr_{0.6}Ba_{0.4}Nb₂O₆) thin films deposited by pulsed laser deposition technique", *Vacuum*, vol. 160, pp. 434-439.
- Gupta, S., Paliwal, A., Gupta, V. & Tomar, M. 2019, "Thermo-optic Aided Tunability of Sr 0.6 Ba 0.4 Nb 2 O 6 Thin Film-based Electro-optic Modulator Using Waveguide Coupled SPR Modes", *Plasmonics*, .
- Halder, K.K., Sachdev, V.K., Tomar, M. & Gupta, V. 2019, "EMI shielding of ABS composites filled with different temperature-treated equal-quantity charcoals", *RSC Advances*, vol. 9, no. 41, pp. 23718-23726.
- Halder, K.K., Tomar, M., Sachdev, V.K. & Gupta, V. 2019, "Development of polyvinylidene fluoride-graphite composites as an alternate material for electromagnetic shielding applications", *Materials Research Express*, vol. 6, no. 7.
- Hussain, A., Sinha, N., Goel, S., Joseph, A.J. & Kumar, B. 2019, "Y³⁺ doped 0.64PMN-0.36PT ceramic for energy scavenging applications: Excellent piezo-/ferro-response with the investigations of true-remanent polarization and resistive leakage", *Journal of Alloys and Compounds*, vol. 790, pp. 274-287.
- Issar, S. & Mahapatro, A.K. 2019, "Hydrothermally grown rutile titanium dioxide nanostructures with various morphologies", *Materials Science in Semiconductor Processing*, vol. 104.
- Jain, A., Gupta, D.N. & Suk, H. 2019, "Electron-Ion Recombination Effect on Electron Acceleration by an Intense Laser Pulse", *IEEE Transactions on Plasma Science*, vol. 47, no. 11, pp. 4891-4897.
- Jain, G., Jain, C., Bhardwaj, A., Ranjan, K., Dierlamm, A., Hartmann, F. & Demarteau, M. 2019, "Radiation tolerance study on irradiated AC-coupled, poly-silicon biased, p-on-n silicon strip sensors developed in India", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 913, pp. 97-102.
- Jain, G., Jain, C., Kumar, A., Sisodia, A., Sharma, S., Saxena, M., Bhardwaj, A. & Ranjan, K. 2019, "Development of an automated and programmable characterization system for silicon multi-strip sensors", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 936, pp. 663-665.
- Jain, G., Sharma, S., Jain, C., Kumar, A., Bhardwaj, A. & Ranjan, K. 2019, "Radiation hardness investigation of thin and low resistivity bulk Si detectors", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 936, pp. 693-694.
- Jain, P., Uma, V.S., Goel, A. & Mandal, S.K. 2019, "Prediction of band-head spin of triaxial super-deformed bands using the modified VMI model", *European Physical Journal Plus*, vol. 134, no. 2.

- Jain, S. & Wadia, S.R. 2019, "Murray Gell-Mann (1929-2019) and his science", *Current science*, vol. 117, no. 7, pp. 1224-1231.
- Jalan, P., Chand, H. & Sriamand, R. 2019, "Probing the Environment of High-z Quasars Using the Proximity Effect in Projected Quasar Pairs", *Astrophysical Journal*, vol. 884, no. 2.
- Jamdegni, M. & Kaur, A. 2019, "Electrochromic behavior of highly stable, flexible electrochromic electrode based on covalently bonded polyaniline-graphene quantum dot composite", *Journal of the Electrochemical Society*, vol. 166, no. 12, pp. H502-H509.
- Jarwal, B. & Singh, S.S. 2019, "Effect of chemical potential on rotation of boson star", *Indian Journal of Physics*, .
- Jhingan, A., Wollersheim, H.J., Kumar, R., Saxena, M., Ahuja, R., Kumar, M., Dutt, S., Saneesh, N., Varughese, T., Mandal, S.K. & Sugathan, P. 2019, "An annular parallel plate avalanche counter for heavy-ion γ -ray coincidence measurements", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 922, pp. 209-216.
- Joseph, A.J., Sinha, N., Goel, S., Hussain, A., Yadav, H. & Kumar, B. 2019, "New quaternary BNT–BT–PMN–PT ceramic: ferro-/piezo-/pyroelectric characterizations", *Journal of Materials Science: Materials in Electronics*, vol. 30, no. 13, pp. 12729-12738.
- Joshi, A., Pandey, J.C. & Singh, H.P. 2019, "X-Ray Observations of an Intermediate Polar V2400 Oph", *Astronomical Journal*, vol. 158, no. 1.
- Joshi, H., Choudhary, S. & Annapoorni, S. 2019, *Composite nanostructures for enhanced plasmonics*.
- Joshi, H., Kamal Singh, N. & Annapoorni, S. 2019, "Plasmonic response of gold nanoparticle in ZnO-Au hybrid structure", *AIP Conference Proceedings*.
- Kabir, R., Mukherjee, A. & Lohiya, D. 2019, "Reheating constraints on Kähler moduli inflation", *Modern Physics Letters A*, vol. 34, no. 15.
- Kapoor, K., Bansal, N., Sharma, C., Verma, S., Rani, K., Mahajan, R., Behera, B.R., Singh, K.P., Kumar, A., Singh, H., Dubey, R., Saneesh, N., Kumar, M., Yadav, A., Jhingan, A., Sugathan, P., Nayak, B.K., Saxena, A., Sharma, H.P. & Chamoli, S.K. 2019, "Role of viscosity in fusion-fission dynamics via simultaneously measured neutron and α -particle multiplicities", *Physical Review C*, vol. 100, no. 1.
- Kaur, S., Baluja, K.L., Singh, J. & Bharadvaja, A. 2019, "Vibrationally-resolved excitation and dissociation collision strengths of AlO⁺ by electron-impact using the R-matrix method", *European Physical Journal D*, vol. 73, no. 7.
- Kaushal, R.S. 2019, "Quantum reality and the concepts of infinity, infinitesimal, and zero in mathematical and Vedic sciences" in *Quantum Reality and Theory of Śūnya*, pp. 143-157.
- Kavita, Golda, K.S., Ghosh, T.K., Jhingan, A., Sugathan, P., Chatterjee, A., Behera, B.R., Kumar, A., Kumar, R., Saneesh, N., Kumar, M., Yadav, A., Yadav, C., Kumar, N., Banerjee, A., Rani, A., Duggi, S.K., Dubey, R., Rani, K., Noor, S., Acharya, J. & Singh, H. 2019, "Fusion-fission dynamics of Pt 188,190 through fission fragment mass distribution measurements", *Physical Review C*, vol. 100, no. 2.
- Kharangarh, P.R. & Singh, G. 2019, "Facile Synthesis of Sulfur Doped Graphene Quantum Dots for High Performance Supercapacitor Applications", *Integrated Ferroelectrics*, vol. 202, no. 1, pp. 163-170.

- Kharbanda, P., Madaan, T., Sharma, I., Vashishtha, S., Kumar, P., Chauhan, A., Mittal, S., Bangruwa, J.S. & Verma, V. 2019, "Ferrites: magnetic materials as an alternate source of green electrical energy", *Heliyon*, vol. 5, no. 1.
- Khurana, S. & Chandra, A. 2019, "Ion conducting polymer-silica hybrid ionogels obtained via non-aqueous sol-gel route", *Solid State Ionics*, vol. 340.
- Khushboo, Madhavan, N., Nath, S., Jhingan, A., Gehlot, J., Behera, B., Verma, S., Kalkal, S. & Mandal, S. 2019, "Searching the reason for sub-barrier fusion enhancement through multineutron transfer channels", *Physical Review C*, vol. 100, no. 6.
- Konar, S. & Deka, U. 2019, "Radio pulsar sub-populations (I): The curious case of nulling pulsars", *Journal of Astrophysics and Astronomy*, vol. 40, no. 5.
- Kulagin, V.V., Kornienko, V.N., Cherepenin, V.A., Gupta, D.N. & Suk, H. 2019, "Characteristics of quasi-unipolar electromagnetic pulses formed in the interaction of high-power laser pulses with nanoscale targets", *Quantum Electronics*, vol. 49, no. 8, pp. 788-795.
- Kumar, A., Aditya, A. & Murugavel, S. 2019, "Effect of surfactant concentration on textural characteristics and biomineralization behavior of mesoporous bioactive glasses", *Materials Science and Engineering C*, vol. 96, pp. 20-29.
- Kumar, D., Jha, P., Chouksey, A. & Rawat, J.S. 2019, "Sensing of dibutyl sulfide using carboxylic acid functionalized single walled nanotubes", *Springer Proceedings in Physics*, pp. 923.
- Kumar, R., Bawa, R., Gahlyan, P., Dalela, M., Jindal, K., Jha, P.K., Tomar, M. & Gupta, V. 2019, "Pyrene appended bis-triazolyated 1,4-dihydropyridine as a selective fluorogenic sensor for Cu²⁺", *Dyes and Pigments*, vol. 161, pp. 162-171.
- Kumar, R., Jain, H., Chaudhary, A., Kumari, S., Mondal, D.P. & Srivastava, A.K. 2019, "Thermal conductivity and fire-retardant response in graphite foam made from coal tar pitch derived semi coke", *Composites Part B: Engineering*, vol. 172, pp. 121-130.
- Kumar, S., Arti, Kumar, P., Singh, N. & Verma, V. 2019, "Steady microwave absorption behavior of two-dimensional metal carbide MXene and Polyaniline composite in X-band", *Journal of Magnetism and Magnetic Materials*, vol. 488.
- Kumar, S., Gopal, K. & Gupta, D.N. 2019, "Proton acceleration from overdense plasma target interacting with shaped laser pulses in the presence of preplasmas", *Plasma Physics and Controlled Fusion*, vol. 61, no. 8.
- Kumar, S., Kulshreshtha, U., Kulshreshtha, D.S. & Kunz, J. 2019, "Phase diagrams of charged compact boson stars", *European Physical Journal C*, vol. 79, no. 6.
- Kumar, S., Mishra, P., Kumar, A., Goyal, A., Dalal, S. & Mahapatro, A.K. 2019, "Mesoporous Structure with Interconnecting Nanofibers by Irradiating Low Energy (~100 keV) Ar⁺-ions on Gallium Antimonide Epi-Layer", *IEEE Transactions on Nanotechnology*, vol. 18, pp. 971-978.
- Kumar, S., Ohlan, A., Kumar, P. & Verma, V. 2019, "Improved Electromagnetic Interference Shielding Response of Polyaniline Containing Magnetic Nano-ferrites", *Journal of Superconductivity and Novel Magnetism*, .

- Kumar, S., Sinha, N., Bhukkal, S. & Kumar, B. 2019, "Growth of pure and BFO doped KCl crystals by Czochralski technique and fabrication of microstrip patch antenna for GHz applications", *Journal of Materials Science: Materials in Electronics*, vol. 30, no. 3, pp. 2118-2126.
- Kumar, S. & Sreenivas, K. 2019, "Electrical conductivity of magnesium ferrite prepared by sol-gel auto combustion technique", *AIP Conference Proceedings*.
- Kumar, V., Choudhary, S., Malik, V., Nagarajan, R., Kandasami, A. & Subramanian, A. 2019, "Enhancement in Photocatalytic Activity of SrTiO₃ by Tailoring Particle Size and Defects", *Physica Status Solidi (A) Applications and Materials Science*, vol. 216, no. 18.
- Kumar, Y., Rawal, S., Joshi, B. & Hashmi, S.A. 2019, "Background, fundamental understanding and progress in electrochemical capacitors", *Journal of Solid State Electrochemistry*, vol. 23, no. 3, pp. 667-692.
- Kumari, N., Monga, S., Arif, M., Sharma, N., Sanger, A., Singh, A., Vilarinho, P.M., Gupta, V., Sreenivas, K., Katiyar, R.S. & Scott, J.F. 2019, "Multifunctional behavior of acceptor-cation substitution at higher doping concentration in PZT ceramics", *Ceramics International*, vol. 45, no. 10, pp. 12716-12726.
- Kumari, N., Monga, S., Arif, M., Sharma, N., Singh, A., Gupta, V., Vilarinho, P.M., Sreenivas, K. & Katiyar, R.S. 2019, "Higher permittivity of Ni-doped lead zirconate titanate, Pb[(Zr_{0.52}Ti_{0.48})(1-x)Nix]O₃, ceramics", *Ceramics International*, vol. 45, no. 4, pp. 4398-4407.
- Kundu, R., Fernández-Trincado, J.G., Minniti, D., Singh, H.P., Moreno, E., Reylé, C., Robin, A.C. & Soto, M. 2019, "The tale of the Milky Way globular cluster NGC 6362 – I. The orbit and its possible extended star debris features as revealed by Gaia DR2", *Monthly Notices of the Royal Astronomical Society*, vol. 489, no. 4, pp. 4565-4573.
- Kundu, R., Minniti, D. & Singh, H.P. 2019, "Search for extra-tidal RR Lyrae stars in Milky Way globular clusters from Gaia DR2", *Monthly Notices of the Royal Astronomical Society*, vol. 483, no. 2, pp. 1737-1743.
- Malik, C., Katoch, A., Singh, B. & Pandey, A. 2019, "Effect of co-activation on the thermoluminescence and photoluminescence properties of nano-crystalline K₂Ca₂(SO₄)₃:Eu,Cu", *Journal of Luminescence*, vol. 207, pp. 526-533.
- Malik, C., Rathi, P., Singh, B. & Pandey, A. 2019, "An investigation of luminescence properties of gamma, ultraviolet and ion-beam irradiated phosphor KCaBO₃:Dy", *Journal of Luminescence*, vol. 216.
- Mandal, T., Mitra, S. & Raz, S. 2019, "RD (*) motivated S1 leptoquark scenarios: Impact of interference on the exclusion limits from LHC data", *Physical Review D*, vol. 99, no. 5.
- Mandlik, N., Dhole, S.D., Sahare, P.D., Bakare, J.S., Balraj, A. & Bhatt, B.C. 2019, "Thermoluminescence studies of CaSO₄:Dy nanophosphor for application in high dose measurements", *Applied Radiation and Isotopes*, vol. 148, pp. 253-261.
- Masarrat, A., Bhogra, A., Meena, R., Bala, M., Singh, R., Barwal, V., Dong, C.-., Chen, C.-., Som, T., Kumar, A., Niazi, A. & Asokan, K. 2019, "Effect of Fe ion implantation on the thermoelectric properties and electronic structures of CoSb₃ thin films", *RSC Advances*, vol. 9, no. 62, pp. 36113-36122.
- Medwal, R., Gupta, S., Rawat, R.S., Subramanian, A. & Fukuma, Y. 2019, "Spin Pumping in Asymmetric Fe₅₀Pt₅₀/Cu/Fe₂₀Ni₈₀ Trilayer Structure", *Physica Status Solidi - Rapid Research Letters*, vol. 13, no. 10.

- Megavarna Ezhilarasu, P., Suresh, K. & Thamilaran, K. 2019, "Observation of Strange Nonchaotic Dynamics in the Frame of State-Controlled Cellular Neural Network-Based Oscillator", *Journal of Computational and Nonlinear Dynamics*, vol. 14, no. 11.
- Mishra, A., Fatima, T., Narang, J., Shukla, S.K., Rawal, R., Mathur, A., Jain, A. & Khanuja, M. 2019, "Self-Assembled Two-Dimensional Molybdenum Disulfide Nanosheet Geno-Interface for the Detection of Salmonella", *ACS Omega*, vol. 4, no. 12, pp. 14913-14919.
- Mishra, M., Zhang, Y., Mishra, D., Sahoo, M.P.K., Pradhan, P.K. & Pattanaik, A.K. 2019, "Defect driven d0 ferromagnetism and colossal dielectric behavior in Bi(Zn0.5Ti0.5)O3–PbTiO3 ceramics", *Ceramics International*, vol. 45, no. 17, pp. 22948-22955.
- Mishra, P., Singh, D., Mishra, K.P., Kaur, G., Dhull, N., Tomar, M., Gupta, V., Kumar, B. & Ganju, L. 2019, "Rapid antibiotic susceptibility testing by resazurin using thin film platinum as a bio-electrode", *Journal of microbiological methods*, vol. 162, pp. 69-76.
- Mittal, D., Narang, K., Leekha, A., Kumar, K. & Verma, A.K. 2019, "Elucidation of biological activity of silver based nanoparticles using plant constituents of *Syzygium cumini*", *International Journal of Nanoscience and Nanotechnology*, vol. 15, no. 3, pp. 189-198.
- Moditma, Choudhary, S., Vashisht, G., Reddy, V.R. & Annapoorni, S. 2019, "Facile Synthesis of Highly Magnetic Long-term Stable FeCo Nanoparticles", *Journal of Superconductivity and Novel Magnetism*, .
- Mukherjee, D.K., Rao, S. & Das, S. 2019, "Fabry-Perot interferometry in Weyl semi-metals", *Journal of Physics Condensed Matter*, vol. 31, no. 4.
- Nag Chowdhury, S., Majhi, S., Ghosh, D. & Prasad, A. 2019, "Convergence of chaotic attractors due to interaction based on closeness", *Physics Letters, Section A: General, Atomic and Solid State Physics*, vol. 383, no. 35.
- Naqvi, F., Simon, A., Guttormsen, M., Schwengner, R., Frauendorf, S., Reingold, C.S., Burke, J.T., Cooper, N., Hughes, R.O., Ota, S. & Saastamoinen, A. 2019, "Nuclear level densities and γ -ray strength functions in samarium isotopes", *Physical Review C*, vol. 99, no. 5.
- Neelam, Kumar, S., Abhilash, S.R., Umapathy, G.R., Kabiraj, D. & Mehta, D. 2019, "Fabrication of the gold (Au) backed T130e targets for in-beam gamma-ray spectroscopy", *Vacuum*, vol. 170.
- Negi, S. & Chandra, A. 2019, "Ionic switch using nano-channels in polymeric membrane", *Ionics*, vol. 25, no. 3, pp. 1123-1130.
- Negi, S., Prasad, A. & Chandra, A. 2019, "Chaotic Behavior of Ionic Transportation Through Synthetic Ion Channels", *International Journal of Bifurcation and Chaos*, vol. 29, no. 8.
- Nehra, K., Pandian, S.K., Bharati, M.S.S. & Soma, V.R. 2019, "Enhanced catalytic and SERS performance of shape/size controlled anisotropic gold nanostructures", *New Journal of Chemistry*, vol. 43, no. 9, pp. 3835-3847.
- Nehra, K., Pandian, S.K., Byram, C., Moram, S.S.B. & Soma, V.R. 2019, "Quantitative Analysis of Catalysis and SERS Performance in Hollow and Star-Shaped Au Nanostructures", *Journal of Physical Chemistry C*, vol. 123, no. 26, pp. 16210-16222.
- Newmai, M.B., Dahiya, A. & Kumar, P.S. 2019, "Facile synthesis of Ag-Au nano-alloys and their catalytic applications", *AIP Conference Proceedings*.

- Nisha, Kaur, K., Thakur, J., Kashyap, M.K. & Saini, H.S. 2019, "Electronic and thermoelectric transport properties of topological insulator LiAuS", *AIP Conference Proceedings*.
- Nisha, Saini, H.S., Kashyap, M.K., Thakur, J. & Singh, M. 2019, "First-principles study on electronic, mechanical and thermoelectric transport properties of topological insulator NaAuS", *AIP Conference Proceedings*.
- Nitish, R., Singh, D. & Kar, S. 2019, "CFT6 bulk/boundary AdS₅ correspondence and emergent gravity", *Physica Scripta*, vol. 94, no. 7.
- Pahuja, P. & Tandon, R.P. 2019, "Effect of Addition of NZF Nanoparticles on Ferroelectric, Magnetic and Magnetoelectric Properties of BST-NZF Composite", *Integrated Ferroelectrics*, vol. 203, no. 1, pp. 164-169.
- Pal, R., Goyal, S.L., Gupta, V. & Rawal, I. 2019, "MnO₂-Magnetic Core-Shell Structured Polyaniline Dependent Enhanced EMI Shielding Effectiveness: A Study of VRH Conduction", *ChemistrySelect*, vol. 4, no. 31, pp. 9194-9210.
- Paliwal, A., Sharma, A., Guo, R., Bhalla, A.S., Gupta, V. & Tomar, M. 2019, "Electro-optic (EO) effect in proton-exchanged lithium niobate: towards EO modulator", *Applied Physics B: Lasers and Optics*, vol. 125, no. 7.
- Paliwal, A., Sharma, S., Tomar, M. & Gupta, V. 2019, "Impact of plasma dynamics on magneto optic kerr effect (MOKE) in Mn doped BFO thin films", *Physica B: Condensed Matter*, vol. 571, pp. 57-63.
- Paliwal, A., Tomar, M. & Gupta, V. 2019, "Refractive Index Sensor Using Long-Range Surface Plasmon Resonance with Prism Coupler", *Plasmonics*, vol. 14, no. 2, pp. 375-381.
- Pandey, I. & Chandra, A. 2019, "Factors affecting fractal patterns obtained by electroless deposition in polymer", *Materials Research Express*, vol. 6, no. 10.
- Pandey, I. & Chandra, A. 2019, "Redox-initiated diffusion-limited aggregation in biopolymer", *Physica Scripta*, vol. 94, no. 11.
- Pandey, M.K., Dasgupta, C.N., Mishra, S., Srivastava, M., Gupta, V.K., Suseela, M.R. & Ramteke, P.W. 2019, "Bioprospecting microalgae from natural algal bloom for sustainable biomass and biodiesel production", *Applied Microbiology and Biotechnology*, vol. 103, no. 13, pp. 5447-5458.
- Panwar, N., Samal, M.R., Pandey, A.K., Singh, H.P. & Sharma, S. 2019, "Understanding Formation of Young, Distributed Low-mass Stars and Clusters in the W4 Cloud Complex", *Astronomical Journal*, vol. 157, no. 3.
- Pathak, N.K., Parthasarathi, Kumar, P.S. & Sharma, R.P. 2019, "Tuning of the surface plasmon resonance of aluminum nanoshell near-infrared regimes", *Physical Chemistry Chemical Physics*, vol. 21, no. 18, pp. 9441-9449.
- Pathak, N.K., Senthil Kumar, P. & Sharma, R.P. 2019, "Study of Optical Cross Section of Anisotropic Core-Shell Nanostructure Inside a Perovskite Environment: the Influence of Gain Media", *Plasmonics*, vol. 14, no. 1, pp. 63-70.

- Patra, P., Khan, S.A., Bala, M., Avasthi, D.K. & Srivastava, S.K. 2019, "Assessing a thermal spike model of swift heavy ion-matter interactions via Pd_{1-x}Ni_x/Si interface mixing", *Physical chemistry chemical physics : PCCP*, vol. 21, no. 30, pp. 16634-16646.
- Pattnaik, A., Tomar, M., Mondal, S., Gupta, V. & Prasad, B. 2019, "Enhancement in power conversion efficiency of multi-crystalline silicon solar cell by zns nano particles with pmma", *Springer Proceedings in Physics*, pp. 399.
- Pokhriyal, M., Sharma, M., Tripathi, V.K., Murugavel, S., Uma, S. & Nagarajan, R. 2019, "Correlating oxide ion conductivity with ionic size of dopant and defect structures in ThO₂-LnO_{1.5} (Ln = Y, La and Gd) prepared by modified epoxide gel method", *Solid State Ionics*, vol. 329, pp. 67-73.
- Poonam, Pundir, A.K., Singh, M., Thakur, J., Kashyap, M.K. & Saini, H.S. 2019, "First-principles investigation of half metallic ferromagnetism in Ti-doped MgTe binary alloy via modified Becke-Johnson potential", *AIP Conference Proceedings*.
- Poonam, Saini, H.S., Thakur, J., Pundir, A.K., Singh, M. & Kashyap, M.K. 2019, "Structural, electronic and magnetic properties of Ti-doped MgSe diluted magnetic semiconductor compound", *AIP Conference Proceedings*.
- Premraj, D., Suresh, K. & Thamilaran, K. 2019, "Effect of processing delay on bifurcation delay in a network of slow-fast oscillators", *Chaos*, vol. 29, no. 12.
- Priyanka, Ranjan, K. & Bhardwaj, A. 2019, "Single-top quark production at CMS", *Universe*, vol. 5, no. 1.
- Puri, N., Rohilla, A., Chamoli, S.K. & Mahapatro, A.K. 2019, "Effect of ytterbium oxide deposition on microstructural and electrical properties of thin tantalum foil", *Materials Letters*, vol. 253, pp. 67-70.
- Puri, N., Tandon, R.P. & Mahapatro, A.K. 2019, "Significant enhancement in thermoelectric power factor of bulk nanostructured calcium cobalt oxide ceramics", *ACS Applied Energy Materials*, vol. 2, no. 1, pp. 269-277.
- Rani, P., Thakur, J., Taya, A. & Kashyap, M.K. 2019, "Effect of tetragonal distortion induced by interstitial C-doping in L10-FeNi", *AIP Conference Proceedings*.
- Rani, P., Thakur, J., Taya, A. & Kashyap, M.K. 2019, "First principles investigation of electronic properties and magnetic response of Fe₃Co₃Ti₂ in non-cubic phase", *AIP Conference Proceedings*.
- Rani, P., Thakur, J., Taya, A. & Kashyap, M.K. 2019, "Magnetocrystalline anisotropy of Pt-doped L10-FeNi compound for clean energy applications", *Vacuum*, vol. 159, pp. 186-190.
- Rathnasree, N., Das Gupta, P. & Garg, A. 2019, "A quantitative study of accuracies in positions of star markers on historical astrolabes", *Astrophysics and Space Science Proceedings*, pp. 29.
- Rohilla, A., Singh, R.P., Muralithar, S., Kumar, A., Govil, I.M. & Chamoli, S.K. 2019, "Lifetime measurements in the yrast band of Lu 167", *Physical Review C*, vol. 100, no. 2.
- Sabarathinam, S. 2019, "The transition of pull in-instability through extreme event in a MEMS resonators", *AIP Conference Proceedings*.
- Saha, S., Palit, R., Sethi, J., Biswas, S., Singh, P., Nag, S., Singh, A.K., Ragnarsson, I., Babra, F.S., Garg, U., Goswami, A., Ideguchi, E., Jain, H.C., Kumar, S., Laskar, M.S.R., Mukherjee, G., Naik, Z. & Palshetkar, C.S. 2019, "Observation of rotation about the longest principal axis in Zr 89", *Physical Review C*, vol. 99, no. 5.

Sahoo, R.N., Kaushik, M., Sood, A., Kumar, P., Sharma, A., Thakur, S., Singh, P.P., Raina, P.K., Shaikh, M.M., Biswas, R., Yadav, A., Gehlot, J., Nath, S., Madhavan, N., Srivastava, V., Sharma, M.K., Singh, B.P., Prasad, R., Rani, A., Banerjee, A., Gupta, U., Deb, N.K. & Roy, B.J. 2019, "Sub-barrier fusion in the $^{137}\text{Cl} + ^{130}\text{Te}$ system", *Physical Review C*, vol. 99, no. 2.

Sahoo, S., Varshney, V., Prasad, A. & Ramaswamy, R. 2019, "Ageing in mixed populations of Stuart-Landau oscillators: The role of diversity", *Journal of Physics A: Mathematical and Theoretical*, vol. 52, no. 46.

Saini, H.S., Poonam, Pundir, A.K., Singh, M., Thakur, J. & Kashyap, M.K. 2019, "Prediction of half metallicity in Ti-doped BeSe: A spintronics material", *AIP Conference Proceedings*.

Saini, P., Sharma, B., Singh, M., Tandon, R.P., Singh, S.P. & Mahapatro, A.K. 2019, "Electrical Properties of Self Sustained Layer of Graphene Oxide and Polyvinylpyridine Composite", *Integrated Ferroelectrics*, vol. 202, no. 1, pp. 197-203.

Sakai, K., Hoshino, Y., Prasad, A., Sugawara Fukamachi, A. & Ishibashi, A. 2019, "Period-3 dominant phase synchronisation of *Zelkova serrata*: border-collision bifurcation observed in a plant population", *Scientific Reports*, vol. 9, no. 1.

Samanta, S., Das, S., Bhattacharjee, R., Chatterjee, S., Raut, R., Ghugre, S.S., Sinha, A.K., Garg, U., Neelam, Kumar, N., Jones, P., Laskar, M.S.R., Babra, F.S., Biswas, S., Saha, S., Singh, P. & Palit, R. 2019, "Single particle configurations in ^{61}Ni ", *Physical Review C*, vol. 99, no. 1.

Sarin, N., Kumar, S., Parkin, I.P. & Luthra, V. 2019, "Influence of humidity on the NO_2 sensing properties of $\text{SrCo}_0.1\text{Ti}_0.9\text{O}_3$ ", *Springer Proceedings in Physics*, pp. 905.

Saxena, G., Kumawat, M., Singh, S.S. & Aggarwal, M. 2019, "Structural properties and decay modes of $Z = 122, 120$ and 118 superheavy nuclei", *International Journal of Modern Physics E*, vol. 28, no. 1-2.

Saxena, N., Kumar, P. & Gupta, V. 2019, "CdS nanodroplets over silica microballs for efficient room-temperature LPG detection", *Nanoscale Advances*, vol. 1, no. 6, pp. 2382-2391.

Sen, P., Indumathi, D. & Choudhury, D. 2019, "Infrared finiteness of a thermal theory of scalar electrodynamics to all orders", *European Physical Journal C*, vol. 79, no. 6.

Shah, A., Sharma, A., Kumar, A., Merlin, J. & Naimuddin, M. 2019, "Impact of single-mask hole asymmetry on the properties of GEM detectors", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 936, pp. 459-461.

Shandilya, A. & Sreenivas, K. 2019, "Microstructural and thermogravimetric analysis of SrMoO_4 prepared by solid state reaction", *AIP Conference Proceedings*.

Sharma, J. & Hashmi, S. 2019, "Magnesium ion-conducting gel polymer electrolyte nanocomposites: Effect of active and passive nanofillers", *Polymer Composites*, vol. 40, no. 4, pp. 1295-1306.

Sharma, M., Gupta, M., Kaghazchi, P. & Murugavel, S. 2019, "Size induced structural changes in maricite- NaFePO_4 : An in-depth study by experiment and simulations", *Physical Chemistry Chemical Physics*, vol. 21, no. 45, pp. 25206-25214.

Sharma, M. & Mishra, D. 2019, "CrysX: Crystallographic tools for the Android platform", *Journal of Applied Crystallography*, vol. 52, pp. 1449-1454.

- Sharma, M. & Mishra, D. 2019, "DFT+U study of small ZnO nanoclusters", *AIP Conference Proceedings*.
- Sharma, M., Mishra, D. & Kumar, J. 2019, "First-principles study of the structural and electronic properties of bulk ZnS and small Zn_n Sn nanoclusters in the framework of the DFT+U method", *Physical Review B*, vol. 100, no. 4.
- Sharma, P., Behera, B.R., Abhilash, S.R., Kabiraj, D., Gupta, C.K. & Duggal, H. 2019, "Fabrication of thin sandwiched ^{142,150}Nd targets for HYRA spectrometer experiments", *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 935, pp. 65-68.
- Sharma, R., Jain, C. & Dutta, A. 2019, "Study of the reflection spectra of SAX J1748.9-2021", *Monthly Notices of the Royal Astronomical Society*, vol. 482, no. 2, pp. 1634-1639.
- Sharma, S., Gupta, V. & Tomar, M. 2019, "Optical properties of lead- Free ferroelectric potassium sodium niobate (K_xNa_{1-x}NbO₃) thin films", *Materials Today: Proceedings*, pp. 34.
- Sharma, S., Kumar, A., Gupta, V. & Tomar, M. 2019, "Dielectric and ferroelectric studies of KNN thin film grown by pulsed laser deposition technique", *Vacuum*, vol. 160, pp. 233-237.
- Sharma, S., Kumar, A., Gupta, V. & Tomar, M. 2019, "Influence of top metal electrode on electrical properties of pulsed laser deposited lead-free ferroelectric K_{0.35}Na_{0.65}NbO₃ thin films", *Materials Science in Semiconductor Processing*, vol. 103.
- Sharma, S., Paliwal, A., Tomar, M. & Gupta, V. 2019, "Multiferroic BFO/BTO multilayer structures based magnetic field sensor", *Physica B: Condensed Matter*, vol. 571, pp. 1-4.
- Sharma, S., Saini, B., Kaur, R., Gupta, V., Tomar, M. & Kapoor, A. 2019, "Effect of oxygen pressure on growth of Cd_{0.05}Zn_{0.95}O thin films using pulsed laser deposition", *Springer Proceedings in Physics*, pp. 1059.
- Sharma, S., Saini, B., Kaur, R., Tomar, M., Gupta, V. & Kapoor, A. 2019, "Low resistivity of pulsed laser deposited Cd_xZn_{1-x}O thin films", *Ceramics International*, vol. 45, no. 2, pp. 1900-1908.
- Shukla, M.K. & Avinash, K. 2019, "Equilibrium configuration of self-gravitating charged dust clouds: Particle approach", *Physics of Plasmas*, vol. 26, no. 1.
- Sikarwar, S., Yadav, B.C., Sonker, R.K., Dzhardimalieva, G.I. & Rajput, J.K. 2019, "Synthesis and characterization of highly porous hexagonal shaped CeO₂-Gd₂O₃-CoO nanocomposite and its opto-electronic humidity sensing", *Applied Surface Science*, vol. 479, pp. 326-333.
- Singh, A.K., Dawra, D., Dimri, M., Jha, A.K.S. & Mohan, M. 2019, "Relativistic atomic structure calculations and study of plasma parameters for Na-like Se XXIV", *Physics of Plasmas*, vol. 26, no. 6.
- Singh, A.K., Dawra, D., Dimri, M., Jha, A.K.S. & Mohan, M. 2019, "Relativistic R-matrix calculations of photoionization cross sections of Cu XVIII", *European Physical Journal D*, vol. 73, no. 5.
- Singh, A.K., Dimri, M., Dawra, D., Jha, A.K.S. & Mohan, M. 2019, "Accurate study on the properties of spectral lines for Na-like Cr¹³⁺", *Canadian Journal of Physics*, vol. 97, no. 4, pp. 436-442.
- Singh, A.K., Dimri, M., Dawra, D., Jha, A.K.S. & Mohan, M. 2019, "Relativistic R-matrix photoionization cross section calculations of Ne-like Co XVIII with resonance parameters", *Journal of Physics B: Atomic, Molecular and Optical Physics*, vol. 52, no. 7.

- Singh, A.K., Dimri, M., Dawra, D., Jha, A.K.S., Verma, N. & Mohan, M. 2019, "Spectroscopic study of EUV and SXR transitions of Cu XIX with plasma parameters", *Radiation Physics and Chemistry*, vol. 156, pp. 174-192.
- Singh, A.K., Kumar, A., Srivastava, A., Yadav, A.N., Haldar, K., Gupta, V. & Singh, K. 2019, "Lightweight reduced graphene oxide-ZnO nanocomposite for enhanced dielectric loss and excellent electromagnetic interference shielding", *Composites Part B: Engineering*, vol. 172, pp. 234-242.
- Singh, A.K., Yadav, A.N., Srivastava, A., Haldar, K.K., Tomar, M., Alaferdov, A.V., Moshkalev, S.A., Gupta, V. & Singh, K. 2019, "CdSe/V2O5 core/shell quantum dots decorated reduced graphene oxide nanocomposite for high-performance electromagnetic interference shielding application", *Nanotechnology*, vol. 30, no. 50.
- Singh, D. 2019, "Correction to: Emergent D-Instanton as a Source of Dark Energy (Brazilian Journal of Physics, (2019), 49, 2, (249-255), 10.1007/s13538-019-00635-y)", *Brazilian Journal of Physics*, vol. 49, no. 5, pp. 799.
- Singh, D. & Kar, S. 2019, "Emergent D-Instanton as a Source of Dark Energy", *Brazilian Journal of Physics*, vol. 49, no. 2, pp. 249-255.
- Singh, G. & Yadav, R.K.S. 2019, "The radial distribution of blue stragglers in Galactic globular cluster NGC 6656 – clues to the dynamical status", *Monthly Notices of the Royal Astronomical Society*, vol. 482, no. 4, pp. 4874-4882.
- Singh, M., Misra, K., Sahu, D.K., Dastidar, R., Gangopadhyay, A., Srivastav, S., Anupama, G.C., Bose, S., Lipunov, V., Chakradhari, N.K., Kumar, B., Kumar, B., Pandey, S.B., Gorbovskoy, E. & Balanutsa, P. 2019, "Observational properties of a Type Ib supernova MASTER OT J120451.50+265946.6 in NGC 4080", *Monthly Notices of the Royal Astronomical Society*, vol. 485, no. 4, pp. 5438-5452.
- Singh, M.K., Jha, P.K. & Bhattacharjee, A.B. 2019, "Photon blockade induced tunable source of one/two photon in a double quantum dot-semiconductor microcavity system", *Optik*, vol. 185, pp. 685-691.
- Solanki, R., Singh, N., Kiran Kumar, N.V.P., Rajeev, K., Imasu, R. & Dhaka, S.K. 2019, "Impact of Mountainous Topography on Surface-Layer Parameters During Weak Mean-Flow Conditions", *Boundary-Layer Meteorology*, .
- Somorendro Singh, S. & Saxena, G. 2019, "Effect of two-loop correction in the formation of quark–gluon plasma droplet", *Pramana - Journal of Physics*, vol. 92, no. 5.
- Sonia, Vijayan, N., Vij, M., Krishna, A., Yadav, H., Maurya, K.K., Dhas, S.A.M.B. & Kumar, P. 2019, "An efficient piezoelectric single-crystal l-argininium phosphite: structural, Hirshfeld, electrical and mechanical analyses for NLO applications", *Applied Physics A: Materials Science and Processing*, vol. 125, no. 5.
- Sonia, Vijayan, N., Vij, M., Yadav, H., Kumar, R., Sur, D., Singh, B., Martin Britto Dhas, S.A. & Verma, S. 2019, "Evaluation of structural, optical and mechanical behaviour of L-argininium bis(trifluoroacetate) single crystal: An efficient organic material for second harmonic generation applications", *Journal of Physics and Chemistry of Solids*, vol. 129, pp. 401-412.
- Sonker, R.K., Shastri, R. & Yadav, B.C. 2019, "Theoretical and experimental investigation on structural stability, electronic and vibrational properties of polyaniline (PANI)", *Proceedings of the Jangjeon Mathematical Society*, vol. 22, no. 1, pp. 129-139.

- Sonker, R.K., Yadav, B.C., Gupta, V. & Tomar, M. 2019, "Fabrication and characterization of ZnO-TiO₂-PANI (ZTP) micro/nanoballs for the detection of flammable and toxic gases", *Journal of hazardous materials*, , pp. 126-137.
- Sood, A., Kumar, P., Sahoo, R.N., Singh, P.P., Yadav, A., Sharma, V.R., Sharma, M.K., Singh, D.P., Gupta, U., Aydin, S., Kumar, R., Singh, B.P. & Prasad, R. 2019, "Entrance channel effects on fission fragment mass distribution in 12 C+ 169 Tm system", *Acta Physica Polonica B*, vol. 50, no. 3, pp. 291-296.
- Srivastava, N., Mishra, K., Srivastava, M., Srivastava, K.R., Gupta, V.K., Ramteke, P.W. & Mishra, P.K. 2019, "Role of compositional analysis of lignocellulosic biomass for efficient biofuel production" in *New and Future Developments in Microbial Biotechnology and Bioengineering: From Cellulose to Cellulase: Strategies to Improve Biofuel Production*, pp. 29-43.
- Srivastava, N., Rathour, R., Jha, S., Pandey, K., Srivastava, M., Thakur, V.K., Sengar, R.S., Gupta, V.K., Mazumder, P.B., Khan, A.F. & Mishra, P.K. 2019, "Microbial beta glucosidase enzymes: Recent advances in biomass conversion for biofuels application", *Biomolecules*, vol. 9, no. 6.
- Srivastava, N., Srivastava, M., Malhotra, B.D., Gupta, V.K., Ramteke, P.W., Silva, R.N., Shukla, P., Dubey, K.K. & Mishra, P.K. 2019, "Nanoengineered cellulosic biohydrogen production via dark fermentation: A novel approach", *Biotechnology Advances*, vol. 37, no. 6.
- Srivastava, N., Srivastava, M., Mishra, P.K., Ramteke, P.W. & Singh, R.L. 2019, "New and future developments in microbial biotechnology and bioengineering: From Cellulose to Cellulase: Strategies to Improve Biofuel Production" in *New and Future Developments in Microbial Biotechnology and Bioengineering: From Cellulose to Cellulase: Strategies to Improve Biofuel Production*, pp. 1-314.
- Srivastava, N., Srivastava, M., Ramteke, P.W. & Mishra, P.K. 2019, "Solid-state fermentation strategy for microbial metabolites production: An overview" in *New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Secondary Metabolites Biochemistry and Applications*, pp. 345-354.
- Subramanian, M., Miaskowski, A., Mahapatro, A.K. & Dobson, J. 2019, "Practical bioinstrumentation developments for AC magnetic field-mediated magnetic nanoparticle heating applications", *Applied Physics A: Materials Science and Processing*, vol. 125, no. 3.
- Swami, R. & Sreenivas, K. 2019, "Dielectric properties of La₂Ti₂O₇ ceramics", *AIP Conference Proceedings*.
- Tak, B.R., Dewan, S., Goyal, A., Pathak, R., Gupta, V., Kapoor, A.K., Nagarajan, S. & Singh, R. 2019, "Point defects induced work function modulation of β-Ga₂O₃", *Applied Surface Science*, vol. 465, pp. 973-978.
- Tak, B.R., Garg, M., Dewan, S., Torres-Castanedo, C.G., Li, K.-., Gupta, V., Li, X. & Singh, R. 2019, "High-temperature photocurrent mechanism of β-Ga₂O₃ based metal-semiconductor-metal solar-blind photodetectors", *Journal of Applied Physics*, vol. 125, no. 14.
- Tak, B.R., Garg, M., Kumar, A., Gupta, V. & Singh, R. 2019, "Gamma irradiation effect on performance of β-Ga₂O₃ metal-semiconductor-metal solar-blind photodetectors for space applications", *ECS Journal of Solid State Science and Technology*, vol. 8, no. 7, pp. Q3149-Q3153.
- Tandon, R.P. & Mahapatro, A.K. 2019, "Guest Editorial", *Integrated Ferroelectrics*, vol. 202, no. 1, pp. vii.

- Taya, A., Rani, P., Thakur, J. & Kashyap, M.K. 2019, "First principles study of structural, electronic and optical properties of Cs-doped CH₃NH₃PbI₃ for photovoltaic applications", *Vacuum*, vol. 160, pp. 440-444.
- Taya, A., Singla, R., Rani, P., Thakur, J. & Kashyap, M.K. 2019, "First principles study of structural, electronic and optical properties of Cs-doped HC(NH₂)₂PbI₃ for photovoltaic applications", *AIP Conference Proceedings*.
- Thakur, J., Rani, P., Tomar, M., Gupta, V. & Kashyap, M.K. 2019, "Enhancement of magnetic anisotropy of Fe₅Pb₂ with W substitution: Ab-initio study", *AIP Conference Proceedings*.
- Thakur, J., Rani, P., Tomar, M., Gupta, V., Saini, H.S. & Kashyap, M.K. 2019, "Tailoring in-plane magnetocrystalline anisotropy of Fe₅SiB₂ with Cr-substitution", *AIP Conference Proceedings*.
- Tiwary, S.S., Sharma, H.P., Chakraborty, S., Majumder, C., Bhat, G.H., Sheikh, J.A., Baneerjee, P., Ganguly, S., Rai, S., Pragati, Mayank, Kumar, S., Kumar, A., Bhattacharjee, S.S., Singh, R.P. & Muralithar, S. 2019, "Observation of quasi- γ bands in Te nuclei", *European Physical Journal A*, vol. 55, no. 9.
- Tiwary, S.S., Sharma, H.P., Chakraborty, S., Majumder, C., Singh, G., Mehta, D., Kumar, S., Abhilash, S.R., Kabiraj, D., Singh, R.P. & Muralithar, S. 2019, "Fabrication of isotopic ¹²⁷I target from potassium iodide for heavy ion nuclear reactions", *Vacuum*, vol. 167, pp. 336-339.
- Tripathi, K.M., Rao, S. & Das, S. 2019, "Quantum charge pumping through Majorana bound states", *Physical Review B*, vol. 99, no. 8.
- Tyagi, M., Tomar, M. & Gupta, V. 2019, "Enhanced electron transfer properties of NiO thin film for the efficient detection of urea", *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, vol. 240, pp. 147-155.
- Vashisht, G., Goyal, R., Bala, M., Ojha, S. & Annapoorni, S. 2019, "Studies of Exchange Coupling in FeCo/L10-FePt Bilayer Thin Films", *IEEE Transactions on Magnetics*, vol. 55, no. 3.
- Vashisht, G., Kumar, V., Bala, M., Hussain, Z., Reddy, V.R., Lamba, S. & Annapoorni, S. 2019, "Domain observation in electrochemically deposited FeCo nano-rods by MOKE microscopy and micromagnetics", *Journal of Magnetism and Magnetic Materials*, .
- Verma, M., Tanwar, A. & Sreenivas, K. 2019, "Phase evolution of strontium bismuth niobate ceramics by conventional solid-state reaction method", *Journal of Thermal Analysis and Calorimetry*, vol. 135, no. 4, pp. 2077-2087.
- Vimal, T., Agrahari, K., Sonker, R.K. & Manohar, R. 2019, "Investigation of thermodynamical, dielectric and electro-optical parameters of nematic liquid crystal doped with polyaniline and silver nanoparticles", *Journal of Molecular Liquids*, vol. 290.
- Vineeta & Rath, S. 2019, "Optimization of the concentration of molybdenum disulfide (MoS₂) for formation of atomically thin layers", *Springer Proceedings in Physics*, pp. 39.
- Vittone, E., Garcia Lopez, J., Jaksic, M., Jimenez Ramos, M.C., Lohstroh, A., Pastuovic, Z., Rath, S., Siegele, R., Skukan, N., Vizkelethy, G. & Simon, A. 2019, "Determination of radiation hardness of silicon diodes", *Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms*, vol. 449, pp. 6-10.

Vyas, M.K. & Chandra, A. 2019, "Synergistic effect of conducting and insulating fillers in polymer nanocomposite films for attenuation of X-band", *Journal of Materials Science*, vol. 54, no. 2, pp. 1304-1325.

Yadav, M., Sharma, S.C. & Gupta, D.N. 2019, "Plasma bubble evolution related electron beam parameter estimation in laser wakefield acceleration", *46th EPS Conference on Plasma Physics, EPS 2019*.

Yadav, N., Yadav, N., Singh, M.K. & Hashmi, S.A. 2019, "Nonaqueous, Redox-Active Gel Polymer Electrolyte for High-Performance Supercapacitor", *Energy Technology*, vol. 7, no. 9.

Yadav, P. & Gupta, D.N. 2019, "Temporal characteristics of relativistic stimulated Brillouin scattering of a laser in plasmas", *Laser Physics Letters*, vol. 16, no. 5.

Zhao, S., Jochim, B., Feizollah, P., Rajput, J., Ziaee, F., Kanaka, P.R., Kaderiya, B., Borne, K., Malakar, Y., Berry, B., Harrington, J., Rolles, D., Rudenko, A., Carnes, K.D., Wells, E., Ben-Itzhak, I. & Severt, T. 2019, "Strong-field-induced bond rearrangement in triatomic molecules", *Physical Review A*, vol. 99, no. 5.

Books/Chapters

Gupta, P.D., 'Three faces of Aharanov-Bohm Phase', *In Lectures on Quantum Mechanics: Fundamentals and Applications*, eds. Anirban Pathak and Ajoy Ghatak (Viva Books Pvt. Ltd. (2019).

Gupta, P.D., 'Artificial Intelligence, Free Will, Physics and all that useless ruminations', *Echo (Physics Journal, St. Stephens College)*, 6-8, March Issue (2019).

Deo, N., 'Evolution and dynamics of the currency market', Pradeep Bhadola and N. Deo, *New Economic Windows* (2019)

Mahajan, S., 'Higher Education in the Sciences in India', *Indian Science Education*, Eds. S. Irfan Habib and Dhruv Raina (2019).

Kar, S.K., 'Non-commutative Geometry: A Perspective on String and Field Theories', *World Scientific, Singapore* (2019).

Journals

Prof. Sanjay Jain

- Member of the Editorial Board of *Theory in Biosciences* (Elsevier).
- Member of the Editorial Board of *Artificial Life* (MIT Press).

Dr. Awadhesh Prasad

- Editor: *Chaos, Solitons and Fractals* (Elsevier Science).
- Member of the Editorial Board of *Pramana - J. Physics* (Indian Academy of Science).

Research Projects

CEFIPRA (Indo-French); 2018-2021; Pre-evolutionary processes in autocatalytic RNA networks; Rs. 17.73 Lakhs; PI: Prof. Sanjay Jain

DBT; 2015-2020; Centre of Excellence in Genome Sciences and Predictive Medicine (Phase II); Rs. 32.85 Lakhs; PI: Prof. Sanjay Jain

DST; 2019-2024; Indian Institutions-Fermilab Collaboration in neutrino physics; Rs. 2,80,71,000/-; PI: Prof. B.C. Choudhary

SERB-DST; 2017-2020; Magneto-Optic and Plasmonic Response in magnetic core-shell structures and magnetic multilayers; Rs. 67,407,42/-; PI: Prof. S. Annapoorni.

CSIR; 2019-2022; Galactic & Extragalactic Archeology using Variable Stars; Rs 16 Lakhs; PI: Prof. H.P. Singh.

DST; 2018-2020; Indo-US Joint Networked Center “Theoretical Analyses of Variable Star Data in the Era of Large Surveys”; Rs. 46 Lakhs; PI: Prof. H.P. Singh

ER&IPR; 2019-2024; Fabrication of Lamb Wave Devices on SiO₂/Si; Rs. 4,28,03,200/-; PI: Prof. Vinay Gupta

DRDO; 2018-2029; Optimization of TiO_x film and patterning of the polymer (PI-2610) as sacrificial layer for pixel fabrication; Rs. 22.19 Lakhs; PI: Prof. Vinay Gupta

DRDO; 2017-2019; Feasibility study for fabrication of Air bridges by gold electroplating; Rs. 9.42 Lakhs; PI: Prof. Vinay Gupta

SERB-DST; 2017-2020; Magnetic Fields as Probes for Astrophysical Phenomena; Rs. 25 Lakhs; PI: Prof. T.R. Seshadri

SERB-DST; 2016-2019; Fabrication and characterization of piezoelectric nanocrystals-organic hybrid sheet for energy harvesting and pressure sensor; Rs. 72 Lakhs; PI: Prof. Binay Kumar

SERB-DST; 2017-2020; Functional Domains and Site Correlation Networks in Evolving Protein Families; Rs. 23.84 Lakhs; PI: Prof. Nivedita Deo

SERB-DST; 2017-2020; Low Cost Energy Saving Electrochromic Devices Based on Nanostructured Conducting Polymers for Energy Storing Smart Windows; Rs. 39.5 Lakhs; PI: Prof. Amarjeet Kaur

Alexander von Humboldt Foundation, Germany; 2017-2020; Polymer composites for energy devices: Structure-property relationship; 55000 Euro (Rs. 45,41,623); PI: Prof. Amita Chandra

SERB-DST; 2019-2022; Multi-nucleon transfer reaction dynamics and its effect on fusion near the Coulomb barrier for medium mass nuclei; Rs. 41,74,557/-; PI: Prof. Samit K Mandal

IUAC(UGC); 2015-2019; Investigation of few-nucleons transfer and fusion reactions mechanism in medium mass nuclei at and near the Coulomb barrier; Rs. 6.03 Lakhs; PI: Prof. Samit K Mandal

SERB-DST; 2017-2020; Development of Flexible-Solid-State Capacitors based on Sodium Ion Conducting Gel Polymer Electrolytes; Rs. 57,95,002/-; PI: Prof. S.A. Hasmi

SERB-DST; 2017-2020; Understanding the perpetual points in nonlinear dynamical systems; Rs. 23 Lakhs; PI: Dr. Awadhesh Parsad

UGC-DAE-CRS Kolkata; 2019-2022; Search for large Octupole collectivity and high-spin near N=126 shell closure; Rs. 7 Lakhs; PI: Dr Suresh Kumar

IUAC-UGC; 2017-2020; Investigation of the high spin states in the A=85 mass region using In-beam gamma-ray spectroscopy; Rs 4.2 Lakhs; PI: Dr Suresh Kumar

DST; 2015-2019; R&D of GEM detectors for Scientific and Medical Applications; Rs. 23.48 Lakhs; PI: Dr. Ashok Kumar

SERB-DST; 2019-2022; Search for Quadrupole and Octupole collectivity in nuclei of mass A~150 region; Rs. 23,13696/-; PI: Dr. S.K. Chamoli

SERB-DST; 2019-2020; Exploring molecular growth of hydrocarbons in slow (energy 1 keV or less) ion-molecule collisions; Rs. 33.11 Lakhs; PI: Dr. Jyoti Rajput

SERB-DST; 2017-2020; Simulation studies and tests to develop radiation tolerant silicon detectors for High luminosity colliders; Rs. 10.8 lakhs; PI: Dr. Ashutosh Bhardwaj

SSPL-DRDO; 2017-2019; Investigation of Thermoelectric(TE) Properties of Calcium Cobalt Oxide (Ca₃Co₄O₉) and Graphene Derivatives (as nano-inclusions) for TE Generator Applications; Rs. 9.83 Lakhs; PI: Dr. Ajit Mahapatro.

SERB-DST; 2019-2022; To Design and Develop a novel spin controlled chiral quantum dot DNA bio-sensor; Rs. 17,71,000/-; PI: Dr. Debabrata Mishra

IMPRINT2, MHRD-DST+Industry; 2019-2022; Development of spin dependent smart electrode for DNA bio-sensor; Rs. 35.45 Lakhs; PI: Dr. Debabrata Mishra

UGC; 2018-2019; UGC Start-up grant for faculties joined under Faculty Recharge Program; Rs. 6,00,000/-; Dr. Debabrata Mishra

UGC-DAE CSR and RRCAT (Indore); 2020-2023; Depth resolved investigations of microstructures of metal/topological insulator interfaces; Rs. 1,35,000.00; PI: Dr Sumalay Roy

SERB-DST; 2019-2022; Growth of periodic multi- bi-layer structures of high Z metals on the surface of three dimensional topological insulators; Rs. 29,15,000.00; PI: Dr Sumalay Roy

UGC; 2018-2019; UGC Start-up grant for faculties joined under Faculty Recharge Program; Rs. 6,00,000/-; PI: Dr Sumalay Roy

Seminars Organized

Total Number: 28

Extension and Outreach Activities

- Organization of Mega Science project exhibition by faculty members at New Delhi from January to March 2020.
- Participation by the faculty members in Mega Science project exhibitions at Mumbai, Kolkata and Bengaluru

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D. : 18

M.Phil: Nil

Other Significant Information

Annual Raman Ramkumar memorial award in computational physics for meritorious MSc students.

Faculty Strength:

Total : 41

Professors : 23

Associate Professor : 02

Assistant Professors : 14

UGC-FRP Assistant Professors : 02

DEPARTMENT OF ZOOLOGY

1. Major activities and achievements

Department of Zoology is one of the premier research intensive Departments in the country. Research is conducted in diverse areas ranging from microbes to human. Faculty members in the last one-year have published approximately 82 research papers in peer reviewed journals of high impact. They have also presented their findings in various National and International conferences (68). Many of them have received substantial funding from various National and International funding agencies. The Department of Zoology has been recognized for DST-FIST, UGC-SAP/CAS and DU-DST PURSE schemes. The Department imparts M.Sc. teaching and training in advanced areas of Zoology to approximately 200 students. Six M.Phil. and twelve Ph.D. degrees have been awarded to students in the last one year.

2. Publications

Agarwal, N., Komal, R., Kumari, Y., Malik, S., Rani, S., & Kumar, V. (2019). Development of vernal migration in redheaded buntings: concurrent behavioral, physiological and neural changes under stimulatory photoperiods. *Photochemical & Photobiological Sciences*, 18(10), 2509-2520.

Bakshi, A., & Rai, U. (2019). Tissue-specific sexual dimorphism in the expression of kisspeptin and its receptors in spotted snakehead *Channa punctatus*. *Current science* 116(5), 802.

Bakshi, A., & Rai, U. (2020). Reproductive phase-dependent variation, sexually dimorphic expression and sex steroids-mediated transcriptional regulation of *lep* and *lepr* in lymphoid organs of *Channa punctata*. *Scientific reports*, 10.

Batra, T., Malik, I., & Kumar, V. (2019). Illuminated night alters behaviour and negatively affects physiology and metabolism in diurnal zebra finches. *Environmental Pollution*, 254, 112916.

- Batra, T., Malik, I., Prabhat, A., Bhardwaj, S. K., & Kumar, V. (2020). Sleep in unnatural times: illuminated night negatively affects sleep and associated hypothalamic gene expressions in diurnal zebra finches. *Proceedings of the Royal Society B*, 287(1928), 20192952.
- Buniyaadi, A., Taufique, S. T., & Kumar, V. (2020). Self-recognition in corvids: evidence from the mirror-mark test in Indian house crows (*Corvus splendens*). *Journal of Ornithology*, 161(2), 341-350.
- Chakrabarti, R., Singh, M. K., Sharma, J. G., & Mittal, P. (2019). Dietary supplementation of vitamin C: an effective measure for protection against UV-B irradiation using fish as a model organism. *Photochemical & Photobiological Sciences*, 18(1), 224-231.
- Chauhan, N., Shrivastava, N. K., Agrawal, N., & Shakarad, M. N. (2020). Wing patterning in faster developing *Drosophila* is associated with high ecdysone titer and wingless expression. *Mechanisms of Development*, 103626.
- Das, L., Virmani, R., Sharma, V., Rawat, D., & Singh, Y. (2019). Human Milk Microbiota: Transferring the Antibiotic Resistome to Infants. *Indian journal of microbiology*, 1-7.
- Dhankar, Jyoti, Agrawal, N., & Shrivastava, A. (2020). An interplay between immune responses and neurodegenerative diseases progression: An assessment using *Drosophila* as a model. *Journal of Neuroimmunology*, 577302.
- Dhaulaniya, A. S., Balan, B., Agrawal, P. K., & Singh, D. K. (2019). Cold survival strategies for bacteria, recent advancement and potential industrial applications. *Archives of microbiology*, 201(1), 1-16.
- Dhaulaniya, A. S., Balan, B., Yadav, A., Jamwal, R., Kelly, S., Cannavan, A., & Singh, D. K. (2020). Development of an FTIR based chemometric model for the qualitative and quantitative evaluation of cane sugar as an added sugar adulterant in apple fruit juices. *Food Additives & Contaminants: Part A*, 37(4), 539-551.
- Gaur, M., Vasudeva, A., Singh, A., Sharma, V., Khurana, H., Negi, R. K., ... & Singh, Y. (2019). Comparison of DNA Extraction Methods for Optimal Recovery of Metagenomic DNA from Human and Environmental Samples. *Indian journal of microbiology*, 59(4), 482-489.
- Goel, H., Singhal, S., Mathur, R., Syeda, S., Gupta, R. K., Kumar, A., ... & Jha, A. K. (2020). Promoter Hypermethylation of LATS2 Gene in Oral Squamous Cell Carcinoma (OSCC) Among North Indian Population. *Asian Pacific Journal of Cancer Prevention*, 21(5), 1283-1287.
- Goswami, R. K., Shrivastav, A. K., Sharma, J. G., Tocher, D. R., & Chakrabarti, R. (2020). Growth and digestive enzyme activities of rohu labeo rohita fed diets containing macrophytes and almond oil-cake. *Animal Feed Science and Technology*, 114456.
- Hira, P., Bajaj, A., Puri, A., Talwar, C., Khurana, H., Negi, R. K., ... & Shakarad, M. (2019). Microbial Genomics and Metagenomics in India: Explorations and Perspectives. *Proceedings of the Indian National Science Academy*, 85(4), 999-1023.
- Jaiswal, S., Singh, D. K., & Shukla, P. (2019). Gene editing and systems biology tools for pesticide bioremediation: a review. *Frontiers in microbiology*, 10, 87.
- Jamwal, R., Kumari, S., Balan, B., Dhaulaniya, A. S., Kelly, S., Cannavan, A., & Singh, D. K. (2020). Attenuated Total Reflectance–Fourier Transform Infrared (ATR–FTIR) spectroscopy coupled with chemometrics for rapid detection of argemone oil adulteration in mustard oil. *LWT*, 120, 108945.

- Jamwal, R., Kumari, S., Dhaulaniya, A. S., Balan, B., Kelly, S., Cannavan, A., & Singh, D. K. (2020). Utilizing ATR-FTIR spectroscopy combined with multivariate chemometric modelling for the swift detection of mustard oil adulteration in virgin coconut oil. *Vibrational Spectroscopy*, 103066.
- Jamwal, R., Kumari, S., Kelly, S., Cannavan, A., & Singh, D. K. (2020). Rapid detection of pure coconut oil adulteration with fried coconut oil using ATR-FTIR spectroscopy coupled with multivariate regression modelling. *LWT*, 109250.
- Joshi, B. D., Johnson, J. A., Negi, T., Singh, A., Goyal, S. P., & Negi, R. K. (2019). Understanding genetic diversity and population genetic structure of three Cyprinidae fishes occupying the same habitat from Uttarakhand, India. *Mitochondrial DNA Part B*, 4(2), 2956-2961.
- Kaur, H., Negi, R. K., & Kamra, K. (2019). Morphological and molecular characterization of *Neogastrostyla aqua nov. gen., nov. spec.* (Ciliophora, Hypotrichia) from River Yamuna, Delhi; comparison with *Gastrostyla*-like genera. *European journal of protistology*, 68, 68-79.
- Kaur, H., Warren, A., Negi, R. K., & Kamra, K. (2020). Taxonomic resolution of *Stylonychia notophora* (Alveolata, Ciliophora, Hypotricha) sensu Sapro and Dass 1970 using an integrative approach. *International Journal of Systematic and Evolutionary Microbiology*, ijssem004207.
- Khan, N. A., Ninawe, A. S., Sharma, J., & Chakrabarti, R. (2020). Effect of light intensity on survival, growth and physiology of rohu, *Labeo rohita* (Cyprinidae) fry. *International Journal of Radiation Biology*, 96(4), 552-559.
- Khan, N. A., Sharma, J., & Chakrabarti, R. (2019). The study of ameliorative effect of dietary supplementation of vitamin C, vitamin E, and tryptophan on *Labeo rohita* (Cyprinidae) fry exposed to intense light. *Fish physiology and biochemistry*, 45(3), 1153-1165.
- Khurana, H., Sharma, M., Verma, H., Lopes, B. S., Lal, R., & Negi, R. K. (2020). Genomic insights into the phylogeny of *Bacillus* strains and elucidation of their secondary metabolic potential. *Genomics*.112: 1391-3200. ISSN: 0888-7543.
- Kumar, M., Jaiswal, S., Sodhi, K. K., Shree, P., Singh, D. K., Agrawal, P. K., & Shukla, P. (2019). Antibiotics bioremediation: Perspectives on its ecotoxicity and resistance. *Environment international*, 124, 448-461.
- Kumar, N., Sharma, J., Singh, S. P., Singh, A., Krishna, V. H., & Chakrabarti, R. (2019). Validation of growth enhancing, immunostimulatory and disease resistance properties of *Achyranthes aspera* in *Labeo rohita* fry in pond conditions. *Heliyon*, 5(2), e01246.
- Kumar, M., Sodhi, K. K., Singh, P., Agrawal, P. K., & Singh, D. K. (2019). Synthesis and characterization of antibiotic-metal complexes [FeCl₃ (L1) 2H₂O and Ni (NO₃)₂ (L2) 2H₂O] and enhanced antibacterial activity. *Environmental Nanotechnology, Monitoring & Management*, 11, 100209.
- Kumari, S., Jamwal, R., Mishra, N., & Singh, D. K. (2020). Recent developments in environmental mercury bioremediation and its toxicity: A review. *Environmental Nanotechnology, Monitoring & Management*, 13, 100283.
- Lakra, P., Aditi, K., & Agrawal, N. (2019). Peripheral expression of mutant huntingtin is a critical determinant of weight loss and metabolic disturbances in Huntington's disease. *Scientific reports*, 9(1), 1-15.

- Mahato, N. K., Sharma, A., Singh, Y., & Lal, R. (2019). Comparative metagenomic analyses of a high-altitude Himalayan geothermal spring revealed temperature-constrained habitat-specific microbial community and metabolic dynamics. *Archives of microbiology*, 201(3), 377-388.
- Minhas, V., Kumar, R., Moitra, T., Singh, R., Panda, A. K., & Gupta, S. K. (2020). Immunogenicity and contraceptive efficacy of recombinant fusion protein encompassing Sp17 spermatozoa-specific protein and GnRH: Relevance of adjuvants and microparticles based delivery to minimize number of injections. *American Journal of Reproductive Immunology*, 83(4), e13218.
- Misra, R., Menon, D., Arora, G., Virmani, R., Gaur, M., Naz, S., ... & Singhal, A. (2019). Tuning the Mycobacterium tuberculosis alternative sigma factor SigF through the multidomain regulator Rv1364c and osmosensory kinase protein kinase D. *Journal of bacteriology*, 201(7), e00725-18
- Mishra, I., & Kumar, V. (2019). The quantity–quality trade-off: differential effects of daily food availability times on reproductive performance and offspring quality in diurnal zebra finches. *Journal of Experimental Biology*, 222(7).
- Mishra, I., Agarwal, N., Prabhat, A., Batra, T., Bhardwaj, S. K., & Kumar, V. (2015). Changes in brain peptides associated with reproduction and energy homeostasis: Putative roles of gonadotrophin-releasing hormone-II and tyrosine hydroxylase in determining reproductive performance in response to daily food availability times in diurnal zebra finches. *EMR*, 002158.
- Mishra, I., Batra, T., Prabhat, A., Agarwal, N., Bhardwaj, S. K., & Kumar, V. (2020). Developmental effects of daily food availability times on song behaviour and neuronal plasticity of song-control system in male zebra finches. *Behavioural Brain Research*, 382, 112497.
- Mishra, I., Batra, T., Prabhat, A., Agarwal, N., Bhardwaj, S. K., & Kumar, V. (2020). Developmental effects of daily food availability times on song behaviour and neuronal plasticity of song-control system in male zebra finches. *Behavioural Brain Research*, 382, 112497.
- Mishra, I., Sharma, A., Prabhat, A., Batra, T., Malik, I., & Kumar, V. (2020). Changes in DNA methylation and histone modification gene expression in response to daily food times in zebra finches: epigenetic implications. *Journal of Experimental Biology* doi: 10.1242/jeb.217422.
- Pandey, N., & Rajagopal, R. (2019). Comparative Analysis of the Difference in the Midgut Microbiota between the Laboratory Reared and the Field-caught Populations of *Spodoptera litura*. *Microbiol. Biotechnol. Lett.*; Vol.47(3): 423-433.
- Prabhat, A., Jha, N. A., Taufique, S. T., & Kumar, V. (2019). Dissociation of circadian activity and singing behavior from gene expression rhythms in the hypothalamus, song control nuclei and cerebellum in diurnal zebra finches. *Chronobiology international*, 36(9), 1268-1284.
- Puri, A., Bajaj, A., Verma, H., Kumar, R., Singh, Y., & Lal, R. (2020). Complete genome sequence of *Paracoccus* sp. strain AK26: Insights into multipartite genome architecture and methylotrophy. *Genomics*.112, 2572-2582.
- Purohit, J. S., Singh, N., Hussain, S. S., & Chaturvedi, M. M. (2020). Attaining Epigenetic Rejuvenation: Challenges Ahead. In *Models, Molecules and Mechanisms in Biogerontology* (pp. 159-179). Springer, Singapore..
- Rajaram, S., Gupta, B., Arora, V. K., Bharti, A. C., & Goel, N. (2019). Evaluation of Biomarkers p16/Ki-67 in Cervical Cytology for Diagnosis of Cervical Intraepithelial Neoplasia. *Indian Journal of Gynecologic Oncology*, 17(2), 46.

- Rana, V.S., Popli, S., Saurav, G.K., Raina, H.S., Jamwal, R., Chaubey, R., Ramamurthy, V. V., Natarajan, K. and Rajagopal, R. (2019). Implication of the Whitefly, Bemisia tabaci, Collagen Protein in Begomovirus Acquisition and Transmission. *Phytopathology* 109(8), 1481-1493.
- Rao, R., Husain, A., Bharti, A. C., & Kashyap, M. K. (2019). Discovery of a Novel Connecting Link between Renin–Angiotensin System and Cancer in Barrett's Esophagus by Proteomic Screening. *PROTEOMICS–Clinical Applications*, 13(4), 1900006.
- Saloni, Sharma, A., Goel, H., Pal, S., Rai, P., Rawat, K., Syeda, S., Shrivastava, A., & Jha, A. K. . (2019). Demethylation of RASSF1A Gene by Quercetin and Eugenol in HeLa Cancer Cell Line. *International Journal of Health Sciences and Research*, 9(8), 29-34.
- Seth, R. K., Patil, B. V., Khan, Z., Zarin, M., Hanchinal, S. G., Haveri, R. V., & Gopalkrishna, A. (2020). Radiation biology of a serious tropical pigeon pea pest, Maruca vitrata (Fabricius)(Lepidoptera: Crambidae) and potential of radiation mediated ‘inherited (F1) sterility technique’ for the pest suppression. *International Journal of Radiation Biology*, 96(4), 532-544.
- Seth, R. K., Patil, B. V., Zarin, M., Khan, Z., Hanchinal, S. G., Haveri, R. V., ... & Seth, R. (2020). Studies on the ontogenic radio-sensitivity in Callosobruchus species complex to establish a generic dose of phytosanitary irradiation as a post harvest quarantine treatment for disinfestation of pulses. *Radiation Physics and Chemistry*, 171, 108686.
- Sharma, A., Das, S., Komal, R., Malik, S., Rani, S., & Kumar, V. (2020). Seasonal reproductive state determines gene expression in the hypothalamus of a latitudinal migratory songbird during the spring and autumn migration. *Molecular and Cellular Endocrinology*, 110794.
- Sharma, A., & Kumar, V. (2019). Metabolic plasticity mediates differential responses to spring and autumn migrations: Evidence from gene expression patterns in migratory buntings. *Experimental Physiology*, 104(12), 1841-1857.
- Sharma, J., Clark, W. D., Shrivastav, A. K., Goswami, R. K., Tocher, D. R., & Chakrabarti, R. (2019). Production potential of greater duckweed Spirodela polyrhiza (L. Schleiden) and its biochemical composition evaluation. *Aquaculture*, 513, 734419.
- Sharma, J., Kumar, N., Singh, S. P., Singh, A., HariKrishna, V., & Chakrabarti, R. (2019). Evaluation of immunostimulatory properties of prickly chaff flower Achyranthes aspera in rohu Labeo rohita fry in pond conditions. *Aquaculture*, 505, 183-189.
- Sharma, J., Kumar, N., Singh, S. P., Singh, A., HariKrishna, V., & Chakrabarti, R. (2019). Evaluation of immunostimulatory properties of prickly chaff flower Achyranthes aspera in rohu Labeo rohita fry in pond conditions. *Aquaculture*, 505, 183-189.
- Sharma, K., Mishra, N., & Shakarad, M. N. (2020). Evolution of reduced minimum critical size as a response to selection for rapid pre-adult development in Drosophila melanogaster. *Royal Society Open Science*, 7(6), 191910.
- Sharma, R., Singh, N. S., & Singh, D. K. (2019). Soil microbial diversity of peri-urban agricultural field and riverbank along Yamuna river in Delhi, India. *SN Applied Sciences*, 1(1), 22.
- Sharma, S. Das and V. Kumar (2019) Transcriptome-wide changes in testes reveal molecular differences in photoperiod-induced seasonal reproductive life-history states in migratory songbirds. *Molecular Reproduction and Development* DOI:10.1002/mrd. 23155).

- Shukla, S., Jadli, M., Thakur, K., Shishodia, G., Mahata, S., Basir, S. F., ... & Bharti, A. C. (2019). Level of phospho-STAT3 (Tyr705) correlates with copy number and physical state of human papillomavirus 16 genome in cervical precancer and cancer lesions. *PLoS one*, 14(9), e0222089.
- Singh, A., Sharma, J., Paichha, M., & Chakrabarti, R. (2020). *Achyranthes aspera* (Prickly chaff flower) leaves-and seeds-supplemented diets regulate growth, innate immunity, and oxidative stress in *Aeromonas hydrophila*-challenged *Labeo rohita*. *Journal of Applied Aquaculture*, 32(3), 250-267.
- Singh, A., Sharma, J., Paichha, M., & Chakrabarti, R. (2020). *Achyranthes aspera* (Prickly chaff flower) leaves-and seeds-supplemented diets regulate growth, innate immunity, and oxidative stress in *Aeromonas hydrophila*-challenged *Labeo rohita*. *Journal of Applied Aquaculture*, 32(3), 250-267.
- Singh, D. N., Sood, U., Singh, A. K., Gupta, V., Shakarad, M., Rawat, C. D., & Lal, R. (2019). Genome sequencing revealed the biotechnological potential of an obligate thermophile *Geobacillus thermoleovorans* strain RL isolated from hot water spring. *Indian journal of microbiology*, 59(3), 351-355.
- Singh, T., & Singh, D. K. (2019). Rhizospheric *Microbacterium* sp. P27 showing potential of lindane degradation and plant growth promoting traits. *Current microbiology*, 76(7), 888-895.
- Sodhi, K. K., Kumar, M., & Singh, D. K. (2020). Potential application in amoxicillin removal of *Alcaligenes* sp. MMA and enzymatic studies through molecular docking. *Archives of Microbiology*, 1-7.
- Sodhi, K. K., Kumar, M., Balan, B., Dhaulaniya, A. S., & Singh, D. K. (2019) Isolation and characterization of amoxicillin-resistant bacteria and amoxicillin-induced alteration in its protein profiling and RNA yield. *Archives of microbiology* doi.org/10.1007/s00203-019- 01737-6
- Sood, U., Hira, P., Kumar, R., Bajaj, A., Rao, D. L. N., Lal, R., & Shakarad, M. (2019). Comparative genomic analyses reveal core-genome-wide genes under positive selection and major regulatory hubs in outlier strains of *Pseudomonas aeruginosa*. *Frontiers in microbiology*, 10, 53.
- Sood, U., Singh, D. N., Hira, P., Lee, J. K., Kalia, V. C., Lal, R., & Shakarad, M. (2020). Rapid and solitary production of mono-rhamnolipid biosurfactant and biofilm inhibiting pyocyanin by a taxonomic outlier *Pseudomonas aeruginosa* strain CR1. *Journal of biotechnology*, 307, 98-106.
- Strashnov, I., Gilmour, J. D., Cannavan, A., Chen, G., Dissanayake, C., Fernando, B. R., ... & Xu, Z. (2019). Atmospheric pressure chemical ionisation (APCI) and photoionisation (APPI) mass spectrometry for detection of unsaturated fatty acids: potential for rapid detection of adulteration of vegetable oils. *Analytical Methods*, 11(30), 3819-3828.
- Sur, S., Sharma, A., Trivedi, A. K., Bhardwaj, S. K., & Kumar, V. (2019). Temperature affects liver and muscle metabolism in photostimulated migratory redheaded buntings (*Emberiza bruniceps*). *Journal of Comparative Physiology B*, 189(5), 623-635.
- Talwar, C., Nagar, S., Kumar, R., Scaria, J., Lal, R., & Negi, R. K. (2020). Defining the Environmental Adaptations of Genus *Devosia*: Insights into its Expansive Short Peptide Transport System and Positively Selected Genes. *Scientific reports*, 10(1), 1-18.
- Talwar, C., Singh, A. K., Choksket, S., Korpole, S., Lal, R., & Negi, R. K. (2020). *Salinicoccus cyprini* sp. nov., isolated from the gut of mirror carp, *Cyprinus carpio* var. *specularis*. *International Journal of Systematic and Evolutionary Microbiology*, 70(7), 4111-4118.
- Talwar, C., Singh, A. K., Singh, D. N., Nagar, S., Singh, Y., Shakarad, M., ... & Lal, R. (2019). Draft Genome Sequence of *Deinococcus* sp. Strain S9, Isolated from Microbial Mat Deposits of Hot Springs

Located atop the Himalayan Ranges at Manikaran, India. *Microbiology resource announcements*, 8(28), e00316-19.

Thakur, D., Verma, P., Deepa, Kumar, M., Goel, H., Syeda, S., Kamthania, M., Shrivastava, A., Jha, A. K. (2019). Reversal of Promoter Hypermethylation of RASSF1A Gene Caused by Aloe Barbadensis Miller and *Murraya Koenigii* in Cervical Cancer. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 10(4), 211-216.

Trivedi, A. K., Mishra, I., & Kumar, V. (2019). Temporal expression of genes coding for aryl-alkamine-N-acetyltransferase and melatonin receptors in circadian clock tissues: Circadian rhythm dependent role of melatonin in seasonal responses. *Physiology & behavior*, 207, 167-178.

Trivedi, A. K., Sur, S., Sharma, A., Taufique, S. T., Gupta, N. J., & Kumar, V. (2019). Temperature alters the hypothalamic transcription of photoperiod responsive genes in induction of seasonal response in migratory redheaded buntings. *Molecular and cellular endocrinology*, 493, 110454.

Venkateswaran, K., Shrivastava, A., Agrawala, P. K., Prasad, A. K., Devi, S. C., Manda, K., ... & Dwarakanath, B. S. (2019). Mitigation of radiation-induced gastro-intestinal injury by the polyphenolic acetate 7, 8-diacetoxy-4-methylthiocoumarin in mice. *Scientific reports*, 9(1), 1-17.

Venkateswaran, K., Shrivastava, A., Prasad, A. K., Parmar, V. S., & Dwarakanath, B. S. (2020). Developing polyphenolic acetates as radiation countermeasure agents: current status and future perspectives. *Drug Discovery Today*, 25(4), 781-786.

Verma, H., Dhingra, G. G., Sharma, M., Gupta, V., Negi, R. K., Singh, Y., & Lal, R. (2020). Comparative genomics of *Sphingopyxis* spp. unravelled functional attributes. *Genomics*, 112(2), 1956-1969.

Vijay, P., & Sehgal, N. (2020). Structural analysis and characterization of egg-envelope in the Indian freshwater murrel, *Channa punctatus*. *Fish Physiology and Biochemistry*, 1-10.

Vijay, P., Sharma, L., & Sehgal, N. (2019). Protein Profiling and Precursor-product Relationship between Vitellogenin and Lipovitellin in the African catfish, *Clarias gariepinus*. *Bulletin of Pure & Applied Sciences-Zoology*, 38(2), 67-81.

Virmani, R., Sajid, A., Singhal, A., Gaur, M., Joshi, J., Bothra, A., ... & Goel, A. K. (2019). The Ser/Thr protein kinase PrkC imprints phenotypic memory in *Bacillus anthracis* spores by phosphorylating the glycolytic enzyme enolase. *Journal of Biological Chemistry*, 294(22), 8930-8941.

4. Journals

Editor/Member, Editorial Board of Scientific Journals

- Prof. Y. Singh, Editor, Indian Journal of Microbiology, Springer Press.
- Prof. M. M. Chaturvedi, Editorial Board Member in
 - Journal of Oncolytic Virology
 - Indian J. of Experimental Biology (IJEB).
- Prof. Rina Chakrabarti, Editorial Board Member in
 - Reviews in Aquaculture (Blackwell)
 - Israeli Journal of Aquaculture–Bamidgeh (Society of Israeli Aquaculture and Marine Biotechnology, Israel)

- Mediterranean Aquaculture Journal (Mediterranean Aquaculture and Environment Society)
- International Journal of Pure and Applied Zoology (Allied Academics, USA)
- International Journal of Fisheries and Aquaculture (Academic Journals)
- Frontiers in Nutrition (Frontiers Open Access Journal)
- Madridge Journal of Aquaculture Research & Development (MJARD)
- Journal of the Inland Fisheries Society of India (Inland Fisheries Society of India, India)
- Journal of Immune Research (**Austin Publishing Group, USA**)
- **Journal of Cold Water Fisheries (Cold Water Fisheries Society of India, Directorate of Cold Water Fisheries Bhimtal, Indian Council of Agricultural Research, India)**
- Prof. Vinod Kumar, Editorial Board Member, Current Science.
- Prof. Yogendra Singh, Editorial Board Member, Journal of Biological Chemistry (JBC).
- Prof. Y Singh, Editorial Advisory Board member, Recent Patents on Anti-infective Drug Discovery (Bentham Science Publishers).
- Prof. RK Seth, Editorial Advisory Board member in
- Indian Journal of Entomology
- J. Nuclear Agric. Biol.

5. Research Projects

- ICMR; 2020-2023; Unravelling possible role of asprosin in male reproduction: hormonal correlation with asprosin and its receptor in mice. Rs. 1,36,17,720/-; PI: Prof. Umesh Rai
- ICMR; 2020-2023; Evaluation of Age-linked Chromatin Modifications in Mice Sperm: an approach to study sperm quality and fertility. Approx. Rs. 65 Lakhs; PI: Dr. JS Purohit, Co-PI: Prof. M. M. Chaturvedi.
- ICMR; 2019-2022; Comparative analysis of Leydig cell functions induced by electromagnetic sources. Rs. 85,44,860/-; PI: Dr. Rajiv Singh, Co-PI: Prof. Umesh Rai.
- DST-SERB (DST-TARE Program to Dr. Manoj Kashyap); 2019-2022. Targeting of the Spliceosome in Esophageal Squamous Cell Carcinoma; Rs. 30,00,000/- PI: Prof. Alok C. Bharti
- DST-SERB; 2019-2021; Investigation of the role of exosomes in cervical cancer angiogenesis and endothelial cell conditioning. ~Rs. 30 Lakhs (Funds awaited); PI: Prof. Alok C. Bharti
- DBT; 2019-20; Remediation and Reclamation of Hexachlorocyclohexane (HCH) Dumpsite by using Microbial Bioremediation Technology; Rs. 190.5 lakhs; PI: Dr. R. K. Negi.
- DBT; 2018-2021; Dissemination and Demonstration of Fish Culture Technology among Women Self Help Groups in NCR Region of Delhi as a Self Employment Activity- In collaboration: Delhi Technological University, Delhi; Rs.58 lakh; PI: Prof. Rina Chakrabarti
- DST SERB; 2018-2021; Characterization of the H3 specific protease (H3ase) activity of the chicken liver glutamate dehydrogenase (GDH); ~ Rs. 65 lakhs; PI: Dr. JS Purohit, Co-PI: Prof. M. M. Chaturvedi.

- EMR-SERB, DST; 2018-2021; Understanding the mechanism of onset of reproductive activity in seasonally breeding reptile *Hemidactylus flaviviridis*: an emphasis on the role of the kisspeptin. Rs. 33,05,000/-; PI: Dr. Sunil Kumar, Co PI: Prof. Umesh Rai.
- Indian Council of Medical Research (ICMR); 2018-2021; Investigation of molecular mechanism(s) of STAT3-mediated regulation of HPV infection and cervical carcinogenesis; Rs. 39.6 Lakhs; PI: Prof. Alok C. Bharti
- NASF (ICAR); 2018-2021; Bioremediation of chemical contaminants and their complexes present in drainage waste water with high dynamic flux used for irrigation in urban and *peri*-urban agriculture; Delhi University, (Lead Centre). Total Budget: Rs. 170.84 (Lakhs), DU Budget: Rs. 95.46 (Lakhs); PI: Prof. D.K. Singh
- DBT; 2018-2020; Remediation and reclamation of HCH dumpsite by using microbial bioremediation technology; Rs.113 Lakhs; PI: Dr. R. K. Negi, Co PI: Prof. Rup Lal.
- IAEA/FAO; 2017-2021; Field-Deployable Analytical Methods to Assess the Authenticity, Safety and Quality of Food in India; EURO 30,000; PI: Prof. D.K. Singh.
- AMAAS and NBAIM; April, 2017-March, 2020; To study the microbial diversity associated with fish gut by using culture dependent and independent approaches; Rs. 19.5 Lakhs; PI: Prof. Rup Lal, Co PI: Dr. R. K. Negi
- DBT; 2017-2020; Understanding signaling mechanism of inflammation in teleost *Channa punctatus*; Rs. 35,84,488/-; PI: Dr. Brototi Roy, Co-PI: Prof. Umesh Rai.
- DST; 2017-2020; Understanding Insect Vector-Pathogen Interaction: Identification of Dengue Virus Envelope Protein Receptor in *Aedes aegypti*; Rs. 49,09,800; PI: Prof. Rajagopal Raman
- DBT; 2017-2020; Exploring diversity, functional dynamics and biotechnological applications of bacterial communities inhabiting hot water spring atop the Himalayan ranges at Manikaran, Himachal Pradesh, India; Rs. 52.23 lakhs; PI: Dr. R. K. Negi, Co-PI: Prof. Rup Lal, Co-PI: Prof. M Shakarad
- International Atomic Energy Agency (IAEA), Vienna; 2016-2021; Quality improvement of mass reared moths and assessment of competitiveness of radio-sterilized lepidopteran pest, *Spodopteralitura* and its F₁ progeny in field simulated cages for pest suppression through ‘Inherited sterility technique’ under FAO/IAEA CRP (D41026) on “*Improved Field Performance of Sterile Male Lepidoptera to Ensure Success in SIT Programmes*” (IAEA Contract No. 20565/RB); € 40,000; PI: Prof. R. K. Seth

6. Seminar organized

Seminar on “FCS Express-Flow Data Analysis Software” by Dr. Hemant Agrawal, Application Scientist, De Novo Softwares, May 24, 2019.

Conference/workshop organized

Prof. Alok C. Bharti was Co-coordinator of ‘Refresher Course in Life Sciences on “Advancement in Life Sciences leading to improvement in Agriculture environment and Human Health” organized by Centre for Professional Development in Higher Education (CPDHE), UGC Human Resource Development Centre, University of Delhi, June 28-July 11, 2019.

7. Other Institutional collaborations

National Collaboration

- Prof. Rina Chakrabarti: DBT; 2018-2021; Dissemination and Demonstration of Fish Culture Technology among Women Self Help Groups in NCR Region of Delhi as a Self-Employment Activity. Rs. 58.0 lakhs. Collaborating Institutions: Delhi Technological University (DTU), Delhi and Krishi Vigyan Kendra, Muradnagar.
- Prof. D. K. Singh: NASF(ICAR); 2018-2021; Bioremediation of chemical contaminants and their complexes present in drainage waste water with high dynamic flux used for irrigation in urban and peri-urban agriculture”, Delhi University, Delhi, (Lead Centre). Total Budget: Rs. 170.84 (Lakh), DU Budget: Rs. 95.46 Lakhs

International collaboration

- Prof. R. K. Seth: FAO/IAEA CRP 2016-2021; Quality improvement of mass reared moths and assessment of competitiveness of radio-sterilized lepidopteran pest, *Spodopteralitura* and its F₁ progeny in field simulated cages for pest suppression through ‘Inherited sterility technique’ under FAO/IAEA CRP (D41026) on “Improved Field Performance of Sterile Male Lepidoptera to Ensure Success in SIT Programmes” (IAEA Contract No. 20565/RB) € 40,000. Collaboration with International Atomic Energy Agency (IAEA), Vienna.
- Rina Chakrabarti: DBT, India – BBSRC, UK (2016-2019); Development of alternative sustainable fish feeds to promote human health using novel non-conventional indigenous ingredients; Collaborators: India - Goa University, Kerala University of Fisheries, Delhi Technological University; UK: University of Stirling, Scottish Association for Marine Science; Africa: Sokoine University of Agriculture, Aquacultural Association of Kenya, State Department of Fisheries.

9. M.Phil. / Ph.D. Awarded

M.Phil.	:	6
Ph.D.	:	12

11. Faculty Strength

Total	:	16
Professors	:	15
Associate Professor	:	01
Assistant Professors	:	nil

FACULTY OF SOCIAL SCIENCES

DEPARTMENT OF ADULT, CONTINUING EDUCATION & EXTENSION

Major Activities and Achievements

The Department as part of Major activities organized a series of webinar during the period. The facilities served as the National and international Experts. The Department worked on National Level Transgender with the help and collaborations of NISD Ministry of Social Justice and empowerment Government of

India. The Department has planned undergraduate level course on Lifelong Learning and Extension under New Education policy 2020. It has worked with District institute of Education and training under SCERT.

The Department is part of the Faculty of Social Sciences since 1985. It has its beginning in 1978 as a Cell. The Department offers M.A. in Lifelong Learning & Extension, M. Phil Programme and Ph.D. The Department entered into an agreement with the University of Wurzburg, Germany for faculty and students exchange programme. Under this agreement the first batch of 6 students, second batch of 11 students, third batch 10 students, fourth batch 4 students and fifth batch 06 students with a faculty attended on each occasion in 2015, 2016, 2017 2018, 2019 and 2020. The Students of Wurzburg University also visited Department of Adult Continuing Education & Extension University of Delhi in Autumn School, September, 2018 and September 2019. Department has developed a unique programme of short-term courses for students and community people to pursue their personal interest promotion and skill training. Some of the popular courses are Travel & Tourism and Counseling and Guidance.

Publications

- Rajesh and Anand, Nitish, 2019, Community Extension and Lifelong Learning in Higher Education, a study of innovation, Indian Journal of Multidisciplinary research, Vol, 23, Page 45.
- Rajesh and Anand, Nitish, 2019 Key Competency in Higher Research, International Journal of Education Science page 27 to 24,
- Aruna Chauhan, HyejinBak, Zhreelak Sheni Subbaswamy& Dixit, Vijay Kumar (2017), “Lifelong Learning and Skill Development policies and Prgrammes: A Competition between India and South Korea, Regina Egetenmeger/Monica Fedeli (eds), Adult Education and work contexts: International perspectives and challenges, comparative perspectives from the 2017 Wurzburg Winter school, Peter Lang EmbH. International verlagderWissenschaften Frankfurt am Main, ISSN 0934-3695.
- Rajesh and Nitish (2017). Innovation and opportunities to Marginalized Group in India, Experiences of Community Learning Centres, Oct.- Dec. 2017, India Journal of Adult, IAEA, P-104-120.
- Rajesh, (2017) Paradigm of Social Defence and Elderly population in India Oct. 2017, Vol. – 1 National Institute of Social, Defence, PP No. 1-16.
- Rajesh, (2017) Transgender – The third Gender from Social Exclusion to employability in India in “social Defence, National Institute of Social Defence, 313-32.
- Rajesh and Jai Pratap Singh, (2018), “Community Learning Centres as a Tool for Women Empowerment”, Published by IAEA, ISSN- 009-5006, Page 42-50.
- Rajesh, (2018), Innovation and opportunities to marginalized Groups in India: Experiences of Community Learning Centre, Published by IAEA, Vol. 78, No. 04, ISSN-0019-5006, P..No104-110.
- Rajesh and Anand, Nitish (2018), “ Lifelong Learning in South East Asia: A stud of SAARC Nations, Indian Journal of Science and Education, ISSN 83442236, Page No 368-373.
- Dubey, J.P. (2017), Professional Competence in Higher Education: Advocacy for Lifelong Learning in Higher education Quality management & social responsibility, Rakhi Publication Agra, Chief editor SS Rawat, pp 1-13,
- Effect of foliar application of Boron and Zinc on growth and flowing characters in African marigold CV Pusa Narangi Gainda. 2018, Anil K. Singh, Anjana Sisodia, Vandana sisodia and Abha Kirti. Journal of Ornamental Horticulture Vol. 21 No. 1&2 P.P. No. 1-6 ISSN – 0972- 0499

- Flowers as a source of Aroma in Food industries 2017, A. Sisodia, Rukmani Hembrom. Vandana Sisodia, K. Bruman. A.R. Pal and Anil K. Singh. Indian Journal of Agriculture and Allied Science Vol. 03 No. 04, 2017 P.P. Non 250-252, ISSN- 2395-1109.
- Climate Change: A Burning issue for production flowers and ornamental plants. Vandana Sisodi, anjana Sisodia, Minakshi Pudhi, Swati Sharma and Anil K. Singh, Agricultural, Allied Sciences and Biotechnology for sustainability of Agriculture, Nutrition and food security p.p. 257-262 , Mahima Research foundation and Social welfare, Varanasi – UP, India, ISBN-978-81-926935-8-3, 2017.
- Role of microbes in restoration ecology and ecosystems services. Anil K. Singh, Anjana Sisodia, Minakshi Padhi, 2019, New and Future developments in Microbial Biotechnology in Agro-Environmental sustainability, 2019, PP No. 57-68, Elsevier Publication, Amsterdam, Netherlands, ISBN: 978-0-444-64191-5
- Saga of Child Rag pickers – obstructions and constraints. Vandana Sisodia and Puys. International Journal of Applied Research, 2018, Vol. 04, issue: 12, ISSN: 2394-7500.
- Yadav, Rahul and Dubey, J.P (2017), “Alternate Vocational Development Programme – A Study of Jan Shikshan Sasthan (JSS) PRAYAS, Jahangirpuri Delhi” , National Journal of Multidisciplinary Research and Development(UGC approved) Vol 2, issue- 2, ISSN -2455-9040, Impact Factor: RJIF 5.22
- Yadav Rahul (2017), “Literacy and Vocational Skill Development” , published in International journal of Multidisciplinary Educational Research, Vol. 07, issue 12(1), ISSN 2277-7881, Impact factor 5.818, IC value 5.16, ISI :2.286

Journals

- Journal of Lifelong Learning and Extension proposed by the Department
- Four teachers are member of the Editorial Board.

Research Projects

- Funding Agency, Year/Period, Title, Amount sanctioned

S. No.	Funding Agency	Name of Projects	Year	Grant Received
1	Institute of Eminences, University of Delhi	Transgender intervention in Higher Education	2020-2021	3,50,000/-
1	UGC (Indo-German Partnership in Higher Education at German Academic Exchange Service (DAAD) and University Grants Commission (UGC)	<i>Adult and Life Long Education: India and German Insights</i>	2016-2020	€ 118140/- (Rupees 88,00,000/-)

Seminars Organized:

Autumn School 30th September to 11th October, 2019

Seminar/Conference Presentations

- International Winter School February, 2020 organized University of Wurzburg, Germany. 6 students of the Department have participated in the programme.
- International Winter School 2019 organized in University of Wurzburg, Germany two faculty Member of the Department delivered their lectures as Dr. Vandana Sisodia and Mr. Rahul Yadav topic on skill Development in Indian Dated on 13th Faculty, 2019.
- International Conference on Lifelong Learning & Adult Education Professionals, Feb. 16-17, 2018 in Wurzburg, Germany Deputed by the University of Delhi.
- Lifelong Learning in Higher Education on 28/09/2018 in Jamia Milia Islami
- Conducted session in Shakit Nagar Secondary School NO.01 on 23/8/2018 on Gender issues.
- Reviewer IMRESS Committee ICSSR selected in 2018-2019 by ICSSR.
- Presented Paper on MOOC in Indian Higher Education System – a study of Sayam for Lifelong Learning in India
- Policies and Adult Education Professionals on 16-17, Feb, 2018.
- Prof. J. P. Dubey, Key Note address on Rural Development & Extension on 22nd Feb, 2017 , Jammu University.
- Prof. J. P. Dubey Participated in Two day National seminar on Lifelong Learning and Sustainable Rural development on 22-23 February 2017 at University of Jammu.
- Vandana Sisodia and Shweta Tiwari. Role of ICT in creating awareness about women rights. National seminar on women rights and responsibilities in progressive India: A discourse, March 23-24 2017. Department of Journalism Kalindicollege, University of Delhi. March 2017.
- Participated and judged paper presentation of pupil teachers. National seminar on “ Empowering teachers as ambassador of changing in fostering discipline in students” February 21st 2017 at Amity Institute of Education , Saket, New Delhi
- Vandana Sisodia. A study of awareness about “Swachh Bharat Mission among students of University of Delhi, North Campus. Third National Symposium on Environment challenges :Generation next, March 31, 2017. Desh bandhu College , University of Delhi
- Participated and judged paper presentation of pupil teachers. National seminar on “ Empowering teachers as ambassador of changing in fostering discipline in students” February 21st 2017 at Amity Institute of Education , Saket, New Delhi.
- Participated in National seminar on women rights and responsibilities in progressive India: A discourse, March 23-24 2017. Department of Journalism Kalindicollege, University of Delhi. March 2017.
- Participated in Third National symposium on Environmental challenges: Generation Next, March 31st 2017 Deshbandhu College, University of Delhi.

- Participated in National Conference on Teacher education: Current scenarios and future possibilities, at CIE, Department of education, and University of Delhi. March 10 -11, 2017

National/International MoUs Signed

- Under national MoU three MoUs signed with Gandhigram Rural Institute, Tamil Nadu and two Government colleges of Madhya Pradesh under Vidya Vistar.
- Under International Indo German Project MoU with JM University, Wurzburg, Germany

Students under Exchange Programme

Yes, with JM University, Wurzburg, Germany

Students for Visit to University Wurzburg Germany on February, 2020

S. No.	Name	Course
1	Debahash Buragohain	Ph.D.
2	Shivam Chaturvedi	M.A. (Sem-I)
3	SATYENDER	M.A. (Sem-I)
4	Jaideep Singh	M.A. (Sem-I)
5	Parinita Batra	M.A. (Sem-I)
6	Neha Rani	M.Phil.

Placement Details (Number of and percentage of students)

In process placement cell in the Department

Extension and Outreach Activities

The importance of building up an understanding with respect to the 'context of content' is reflected in the field work practicum of the Department of Adult Continuing Education & Extension. Paying attention to its extension activities the Department believe in working in close relationship with the community and the organizations working in these communities. Over the past many years the Department has built up the understanding of mutual concerns with NGOs and civil society organizations to facilitate its students. Practical experience along with academic knowledge is well reflected in its intervention programs. Students are visiting the following civil society organizations for internship and concurrent field work programme.

Number of M.Phil./Ph.D. Degrees Awarded

Ph.D.: 03 (2019-2020)

M.Phil:05 (2019-2020)

Faculty Strength

- Permanent Faculty - 06
- Temporary - Nil

- Ad-hoc - Nil

Other Significant Information

1. International Autumn School – 2019

DEPARTMENT OF EAST ASIAN STUDIES

1. Major activities and achievements:

The Department offers post graduate courses in M.A. in East Asian Studies, M.A. in Japanese and Ph.D. in East Asian Studies. The Post-graduate courses in the Department focus on an inter-disciplinary approach to the study of the region. Language is a compulsory component of this program and students learn one of the three East Asian languages viz. Chinese, Japanese or Korean. This program enables students to have comprehensive and integrated knowledge of the subject and the language concerned. It aims to create experts on East Asia who could work in Think tanks, NGOs, government agencies, International Organizations, Newspaper Agencies etc. Further, the Department offers two years of Post Graduate Diploma and Advance Diploma Courses in Chinese, Japanese and Korean languages. Students who complete these courses get absorbed in companies in and outside India. The highlight of this year has been signing of MoUs. Prof. Ikeda Isamu and Ms. Geng Yanxia, Visiting Faculty from Taiwan was sent to the department under the MoU signed. Renowned speakers were invited for Monday seminars and conferences. Many faculty members presented research papers in National and International Conferences. Meritorious students got scholarships to go to China, Taiwan and Japan for higher studies. A large number of students got placement through the Placement Cell of the Department.

2. Honours/Distinctions

- Dr. Unita Sachidanand, Head (HOD) has been awarded a letter of appointment as the member of the Council of the EPIP International Education Alliance on 10th May 2019.
- Dr. Unita Sachidanand, Head (HOD) was invited by Tianjin Municipal Education Commission Foreign Affairs office of Tianjin Municipal People's Government on 10-11 May 2019.
- Dr. Shreeparna Roy, one of our Faculty member was invited by Taipei Economic and cultural Centre in India for leading its Chinese Language Learning on 1st to 14th July, 2019.
- Dr. Unita Sachidanand, Head (HOD) was invited by All India Council for Technical Education & Bharatiya Shikshan Mandal for Conference of Academic Leadership on National Education Policy on 27th July 2019.
- Department was selected for 2019 "Luban workshop" forum for future collaboration by Tianjin Municipal People's Government.

3. Publications

Bhattacharya, A. (2019). China's vulnerability to terrorism behind its support for Azhar ban, *IDSAs Strategic Commentary*, IDSAs, May 06, <http://idsa.in>

Bhattacharya, A. (2019). Chinese Nationalism under Xi Jinping Revisited. *India Quarterly*. Vol. 75, Issue 2 (June): 245-252.

Bhattacharya, A. (2019). Emerging Foreign Policy Trends Under Xi Jinping. In M.S. Prathibha, ed. *East Asia Strategic Review: China's Rising Strategic Ambitions in Asia* (New Delhi: Pentagon Press).

Bhattacharya, A. (2019). India-China Relations: Putting the Record Straight. *India Quarterly*. Vol. 75, Issue 2 (June): 262-268.

Bhattacharya, A. (2019). Modi-Xi Summit: China's territorial fetishism and why the road from Wuhan may peter out at Mamallapuram, *The Times of India*, October 12.

Bhattacharya, A. (2019). The Tibet Conundrum. In Bansal, A & Ketkar, A (eds.) *Geopolitics of Himalayan Region: Cultural Political and Strategic Dimensions* (New Delhi: Pentagon Press).

Bhattacharya, A. (2020). Observations on Prof. Chakrabarty's Study, The India-China Frontier, *National Security*, Vol. III, Issue 1, pp. 134-139.

Devi, M. (2019) Indo [Akogare no Kaj] wo toosite indo de kenkyuu Honyakusareteriru Takuboku", in Lkeda Isamu (ed.). *Sekai ha takuboku wo dou juyousitake, sakura shuppan*, PP.187-208.

Sachidanand, U. (n.d) Bungaku O Toshite Rikai Suru Gengo to bunka. In *Teaching Methodologies, Japanese Language Education in India*.

Thapliyal, S. (n.d) Kanji Teaching Techniques for Various. In *Teaching Methodologies, Japanese Language Education in India*.

4. Journals- Published by the Department

No Journal is being published by the department at present.

5. Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board

Bhattacharya, A.

Member, Editorial Board, India Quarterly, Indian Council of World Affairs (ICWA), 2016- to date

6. Patents Filed/Granted

Not Applicable

8. Seminars Organized

Total Number of Seminars: 34

Interaction with Delegation from JICA to promote Japanese Language in India on 22.05.2019 held at Department of East Asian Studies, Faculty of Social Sciences, University of Delhi. It was attended by representative of the following:

- Hanyang University
- Kangwon University
- Pusan University
- Dong-A-University came to the Department & had an interaction with the students. Students were given placement and scholar ship for study & work in Korea.

Prof. Akiyoshi Inoue delivered a lecture on "History of Japanese Literature", 03.09.2019 at Seminar Room, Ground Floor, Faculty of Social Sciences, University of Delhi.

One day Workshop was organized in the Department of East Asian Studies, on Reading & Reciting Ishikawa Takuboku's Tanka & Akogare no kai on 17. 09.2019.

Monday Seminar Organized by the Department of East Asian Studies, Speaker – Ms. Ningshen Zingjarwon” “Comparative analysis of folktales of the Naga Tribes in North-East India and some of the Ethnic minority of Yunnan Province” on 23.09.2019.

Dr. Nabin Panda teaching the Delegation from Japan Foundation with Japanese Language Students of the Department on 26.09.2019 at 10.00am to 11.30 pm, Seminar Room, Ground Floor, Faculty of Social Sciences, University of Delhi, Delhi.

Dr. Sweety Gupta teaching the Delegation from Japan Foundation with Japanese Language Students of the Department on 26.09.2019 at 12.00am to 01.30 pm, Seminar Room, Ground Floor, Faculty of Social Sciences, University of Delhi, Delhi.

Korean Speech contest held on 14th November organized by Department of East Asian Studies.

Monday Seminar Organized by our Department, Speaker -Dr. Chung Jin-Won (Research Professor) topic- Worin Seokbo; An Inspiration& History of Hangeul (Hunminjeongeum) on 17.02.2020.

Seminar organized by the Department speaker- Dr. Ranjit Kumar Dhawan(Guest Faculty of our Department) Topic - India's 'Act East' Policy and North Korea on 24.02.2020.

Interaction and get together program was held on 03.10.2019 at the Department of East Asian Studies with Teachers and students

9. Conference/Workshop Organized

Nil

10. Seminar/Conference Presentations/lectures delivered

Basu, Ambika

Presented a paper 'Food, Literature and Cultural Theory' at International Conference on Japanese Cultural Studies: A Multi-Dimensional Perspective 第7回インド・日本比較文化研究国際シンポジウム 12th – 13th September 2019 by Department of Asian Languages The English and Foreign Languages University in collaboration with Kokugakuin University, Tokyo.

Presented a paper 'The Poetic Amalgamation of Concepts *kokoro-sugata*, (心・姿) *jo-kei* (情・景) and *kyosho-keisho* (興象・形象) in Chikamatsu's *Joruri*' presented on Two-day International Seminar on "Japanese Studies in India and South Asia: towards a New Horizon" (インド・南アジアにおける日本研究: 新たな地平線に向かって), 9th-10th December 2019 at Committee Hall, Convention Centre, JNU.

Presented a paper at 2nd International Conference, 4-5 November, on Kurosaki Noriko, Meiji University, Japan, IFLUE, Hyderabad.

Delivered speech on 'Food, Literature and Culture Theory: A case study of Obsessive Eating Tradition in Japan' at Department of East Asian Studies.

Bhattacharya, Abanti

Talk delivered on China's Insecure Nationalism at Department of International Relations, Faculty of Social Sciences, South Asia University, held on 12th September 2019.

Talk delivered on China's BRI and India's Concerns at Tibet Policy Institute, TPI Lecture Series, Central Tibetan Administration, Dharamsala, 15th June, 2019.

Talk delivered on Importance of Tibet to India at 6th All India Tibet Support Groups Conference, Dharamsala, on 15th June, 2019.

Talk delivered on Chinese Foreign Policy Under Xi Jinping at Department of East Asian Studies, Monday Seminar Series, 8th April 2019.

Talk delivered on China's Insecure Nationalism at South Asia University, September 12, 2019.

Presented a paper 'Indo-Korea Relations under Act East Policy: Issues and Challenges', at RASK, 8 & 9th November, 2019, Jawahar Lal Nehru University.

Kumar, Paresh

Presented a paper 'Pathetic Korean Society under Colonial Rule Depicted in Hyeon Jin-geon's Unsu Joeun Nal' at the 5th AKS International Interdisciplinary Conference (IIC) on Emerging Trends in Korean Studies in South Asia: An Inter-Disciplinary Perspective held on 5th - 6th July, 2019 at Central University of Jharkhand, Brambe, Ranchi, India by Department of Far East Languages (Korean) in collaboration with the Centre for Korean Studies (CKS), Jawaharlal Nehru University, India supported by Academy of Korean Studies, Korea.

Presented a paper 'Analysis of Challenges for Teaching Korean using ICT in the University of Delhi' under the theme of 'ICT and Korean Language Learning and Teaching in India: Status & Possibilities' in the AKLEI workshop 2019 Association of Korean Language Educators in India on 25th - 27th July 2019 at Korean Corner, CKS, SLL&CS-II, Jawaharlal Nehru University, Delhi, India by Centre for Korean Studies, J.N.U. supported by AKS, the Academy of Korean Studies, Korea and Korean Culture Centre, India.

Presented a paper 'A Study of the Social Realism in the Hyeon Jin-geon's novela in the era of Modern Korean Literature', on Korean Culture Day on 27th September 2019.

Presented a paper 'Understanding Korean Culture through its Language'. On Korean Culture Day on 27th September 2019.

Mukhopadhyaya, Ranjana

Presented a paper in Nehru Memorial Museum on 29-30 August 2019.

Attended the 5th Asian Future Conference in Manila, Philippines from 06.01.2020 to 13.01.2020.

Roopa K.H.

Presented a paper 'An Overview of Cultural Aspects of Korea' on Korea Culture Day, 27th September 2019 at Satyacam Bhawan, University of Delhi.

Presented a paper on "Reflections on Culture-laden Korean Language" Seminar Room, Ground Floor, Faculty of Social Sciences, University of Delhi on 04/11/2019.

Thakur, Ravni

Presented a paper 'An Overview of Cultural Aspects of Korea' on Korea Culture Day, 27th September 2019 at Satyacam Bhawan, University of Delhi.

Devi, Mallika

Presented a paper ‘A Comparison of internet-based populism in India and china’ at the 48th annual Mid-Atlantic Region Association for Asia Studies conference. The Theme of the conference was “Asia Studies in the Digital Age’. The Conference took place on 12-13 October 2019 at Dickinson College, Carlisle, PA, USA.

Presented a paper ‘Takubokubungaku ni okeru kokusaisei: indo’ in Takuboku’s Conference held in Japan from 12 to 13th October 2019.

Delivered a lecture ‘Takuboku’s Tanka as seen from India’ in Koguin University of Japan on 15th October 2019.

Attended a meeting with the Dignitaries from KEB Hana Bank to discuss further promoting Korean studies in the Department on 12.12.2019.

Attended a meeting with Shanghai vocational college of Agriculture and forestry to discuss further promoting Chinese studies in our Department on 06.12.2019.

Attended an Interactive session with the faculty and with Professor Masaki Yamaoka, Soka University on 13.12.2019.

Presented a paper ‘Status of Japanese Literature Studies in India with Special Reference to Translation and Research: A Comprehensive Survey’ in Two-day International Seminar on “Japanese Studies in India and South Asia: towards a New Horizon” (インド・南アジアにおける日本研究: 新たな地平線に向かって), 9th-10th December 2019 at Committee Hall, Convention Centre, JNU.

Sachidanand, Unita

Recited Poetry in Alumni Association of JNU on 17.12.2019.

Presented a paper titled ‘Reading Literature to Foster Interpreters: Taking Hints from children Stories’, 2nd International Conference, 4-5 November, IFLUE, Hyderabad.

Chaired the session on theme, ‘Diverse Approaches in Japanese Language Education’ 2nd International Conference, 4-5 November, IFLUE, Hyderabad.

Invited by Japan Foundation to participate in 2nd Collaborative Research workshop for Aspiring Scholars in Japanese Studies in Japan organized by Japan Foundation, Japan 25th November to 28th November 2019 in Japan.

Delivered a Lecture on Japanese Culture and had an Interactive session with faculty & Students of Sokagakkai on 22nd November 2019 in Japan.

Attended a meeting with the President and Faculty on future collaboration on Japanese studies on 21st November 2019 at Tokyo University of Foreign studies, Tokyo, Japan.

Attended a meeting with faculty & Students of Daito Bunka University, Japan and had an interactive session with the students on “Hindi & Japanese Language: A Comparative view,

Participated in International seminar on 23rd November in Meiji, University, Japan.

Participated a Seminar on comparative Study of Modern Japanese and Hindi Literature, from 4 to 5 February 2020 at Higashimatsuyama Campus, Daito Bunka University, Saitama, Japan.

Delivered a lecture on Indian Education and interacted with various Universities and faculty in South Korea from 21st April to 27th April.

Singh, Reema

Delivered a lecture on 'Live, study & Experience Japan' on 07.11.2019 at Japan Foundation, New Delhi.

Thapliyal, Stuti

Presented a paper on titled 'Japanese Language Education for Persons with Blindnes: A case Study of Adult Learners in Delhi', at the International Conference in New Academic Block, the English and Foreign Languages University on 4-5 November.

Roy, Shreeparna

Delivered a Lecture on contemporary Chinese poetry in a book launch program at India International Centre, New Delhi on 14 February 2020.

10. National/International MoUs Signed

MoU between University of Delhi and Taipei Economic and Cultural Centre, India

MoU beteen University of Delhi and National Chung Cheng University, Taiwan, R.O.C.

11. Other Inter-Institutional Collaboration

- Centre for Policy Research, New Delhi
- Institute of Chinese Studies, New Delhi
- Institute of Peace and Conflict Studies, New Delhi
- Dr. Unita Sachidanand nominated as a Member of the Centre's Committee of the Centre of Korean Stuides of the School at Jawaharlal Nehru University, New Delhi
- Dr. Unita Sachidanand nominated as a Member on the Special Centre for E-learning at Jawaharlal Nehru University, New Delhi.
- Dr. Unita Sachidanand selected as a member of Japanese Language Teachers' Training Programme supported by Japan Foundation and MEA and Japanies Embassy.
- Japan Foundation Collaborative Workshop

12. Students under Exchange Programme

- Inbound

Ms. Daisy Salam, student of JF 2 (One Year Post-Intensive Diploma in Japanese) went to Japan under the Japanese Ministry of Trade, Economy, and Trade on an Internship Program for three months in September 2019.

An Interactive session, 21/11/2019, Ms. Haruna Tsunoda & Zenshito Kawano of Asia Eurasia Institute an Interactive session and dialogue with Japanese experts and research scholars of the Department to Explore future cultural exchange between India & Japan, Committee Room, Third Floor, Department of East Asian Studies, Faculty of Social Sciences, University of Delhi.

- Outbound – Nil

13. Placement Details (Number and percentage of students placed)

Five Companies visited for campus recruitment

100% students got placements in Companies, Think Tanks, and Government Organizations or got admission in higher studies in India as well as in abroad.

14. Extension and Outreach Activities

- Yoga Day celebration on 21st June
- Interaction and discussion on Research and Placement Avenue and Networking was held on 03rd June 2019 at 11am in the Department of East Asian Studies.
- JMI organized workshop on 'Chinese Culture and Language' under UGC China Studies Programme for student of University of Delhi and Jamia Millia Islamia on 29th July, 2019.
- Student of our Department and college student (part time) participated in Japanese Cultural festival at JNU on
 - 27th September 2019- Part Time College Students (Song or Dance)
 - 28th September 2019- Full time student, JF 2 & MA (Play)
- Korea Culture Day organized by the Department on 27th September, 2019 at Satyakam Bhawan, University of Delhi, the objective of the program:
 - Observed Korean Cultural Day event by Department of East Asian Studies. It is not only platform of showing students talents apart from learning language, but it attracts many viewers who appreciated the program. The department is requested to organize such kind of program many times a year or at least a year. Our students have motivated more along with the having curiosity to learn language and perform their best in the part of his/her interest.”
- China National Knowledge Infrastructure Seminar organized by Library Department of East Asian Studies regarding China National Knowledge Infrastructure is a massive database providing access to resources related to East Asia. Its coverage is widespread including science, technology, humanities, and social sciences & other interdisciplinary subjects.
- A meeting was held with the delegation Japan Foundation regarding of future of Japanese Studies in India on 08.11.2019.
- An Interaction with Mr. Kenichiro Hiramoto & Ms. Tomo Kawane & Ph.D students of our Department was held to explore the possibility for future collaboration on 15.11.2019
- Chandra Gupt (Ph.D students of our Department) was selected and received a scholarship of JF to participate in workshop in Japan for 10 days,
- A meeting was convened with Taiwan Education Centre.
- The students of the department attended a Workshop on “Maritime Security in the South China Sea and Indian Ocean Region Exploring Convergent Views” on 30th January 2020.

- Korean Delegation met faculty and Head of the Department on 29.01.2020 to discuss the promotion of Korean Language and Studies in India particularly in our Department. The Delegation from Korea side includes:
 - Choi Hyeyon, Deputy Director, Korean language Policy Division Deputy Director, Ministry of Culture, Sports and Tourism
 - Lee Suilbi, Korean Language Promotion Division, National Institute of Korean Language
 - Park Jung-a, Korean Language Promotion Division, National Institute of Korean language.
- Participated in Regional Japanese Language Speech Contest.
- Organized All India Japanese Language Speech Contest.
- Participated in Japanese Language JALTAI Essay Contest
- Celebrated Constitution Day
- Celebrated International Yoga Day
- Organized Vigilance Awareness Week
- Participate in Swachta Abhiyan
- Part Time Certificate, Diploma and Advanced Diploma courses in Chinese, Japanese and Korean are being conducted through various colleges of Delhi University.
- Interaction and exchange programme with SFL Chinese Interpretership student in our Department.
- Academic Lectures and academic exchange followed in cultural programme by Chinese language Students and SFL on 27.03.2019

15. Number of Ph.D./M. Phil awarded

Ph.D. - 1

16. Faculty Strength

Permanent-10

Ad-hoc -2

Guest-6

Visiting Faculty-2

17. Any other significant information

Ms. Vaishali Gupta, who passed out, put the JF 2 (One Year Post-Intensive Diploma in Japanese) examination in May 2019, got a placement as Associate Japanese Language Expert in APCER Life Sciences, Delhi Office this month (Oct. 2019)

Speech Contest

Nishtha Ahuja won second prize in regional Japanese Language Speech Contest held in JNU (Jawaharlal University)

DEPARTMENT OF ECONOMICS

Publications

Bhattacharjea, A. and Pathania, K. (2020). Inverted Duty Structures and the Paradox of Negative Effective Protection in India, 2000-2014, *Foreign Trade Review*, 55(2): 139-167.

Bhattacharjea, A., De, O. and Gouri, G.(2019). Competition Law and Competition Policy in India: How the Competition Commission has dealt with anticompetitive restraints by government entities, *Review of Industrial Organization*, 54(2): 221-250.

Bhattacharjea, Aditya. (2019). The Enforcement of Indian Competition Law: Administrative or Regulatory?, in Devesh Kapur and Madhav Khosla (eds.), *Regulation in India: Design, Capacity, Performance*. Oxford: Hart Publishing.

Dua, P. and Khandelwal, N. (2019). Determinants of Labour Productivity: Comparison between developing and developed countries of Asia-Pacific, *Pacific Economic Review*, 24: 686-704.

Dua, P. and Khandelwal, N. (2019). Sectoral Analysis of Productivity in the Developing and Developed Economies of Asia-Pacific, *Indian Growth and Development Review*, 13: 37-71.

Dua, P. and Suri, R. (2019). Inter-linkages between USD-INR, EUR-INR, GBP-INR and JPY-INR Exchange Rate Markets and the Impact of RBI Intervention, *Journal of Emerging Market Finance*, 18: S102-S136.

Dua, P. *Macroeconometric Applications of the Indian Economy*, Oxford University Press.

Gupta, S. (2020). "Has Economics Caught Up with Climate Science?" *Ecology, Economy and Society–The INSEE Journal*, 3(1): 11–30 doi: 10.37773/ees.v3i1.86.

Gupta, S., Mahajan, R.K. and Tewary, A. (2020). "Towards Effective Climate Services: Indian context". *Current Science*, 117(8): 1274-1280, 2020 doi: 10.18520/cs/v117/i8/1274-1280.

Gupta, S., P. Howie, S. Park and D. Akhmetov. (2020). "Evaluating Policy Success of Emissions Trading Schemes in Emerging Economies: Comparing the experiences of Korea and Kazakhstan", *Climate Policy* 20(5): 577-592, 2020 doi: 10.1080/14693062.2020.1751030

Kanwar, S., (2019). Innovation, Productivity and Intellectual Property Reform in an Emerging Market Economy: Evidence from India, *Empirical Economics*, 59(2), 933-950 (with Stefan Sperlich) <https://doi.org/10.1007/s00181-019-01707-3>.

Kumar, S., and Khanna, M. (2019). Temperature and Production Efficiency Growth: Empirical evidence. *Climatic Change*, 156: 209-229, 2019.

Kumar, S., and Maiti, D. (2020). Editors' Introduction to Productivity Growth in India: Issues and measurement. *Indian Growth and Development Review*, 13: 1-9.

Kumar, S., and Prabhakar, P. (2020). Industrial Energy Prices and Export Competitiveness: Evidence from India. *Environmental Economics and Policy Studies*. 22: 1-20.

- Kumar, S., Managi, S. and Jain R.K. (2020). CO₂ Mitigation Policy for Indian Thermal Power Sector: Potential gains from trade. *Energy Economics*, 86: 1-11.
- Maiti, D. and Bhattacharya, C. (2020). Informality, Enforcement and Growth”, *Economic Modelling*, 84: 259-274.
- Maiti, D. (2019). *Digitalisation and Development: Issues for India and Beyond* (co-edited with F. Castellacci and A. Melchior, Springer.
- Maiti, D. (2019). Trade, Labor Share, and Productivity in India’s Industries, in Fields, Gary and Paul, Saumik (eds.), *Labor Income Share in Asia: Conceptual Issues and the Drivers*, Springer.
- Maiti, D., and Ayasthi, A. (2020). ICT Exposure and the level of Wellbeing and Progress: A cross country analysis, *Social Indicators Research*, 147(1): 311-343.
- Maiti, D., and Agarwal, A. (2019). ICT and Governance: A Cross Country Analysis. In Maiti, D., Melchior, A. and Castellacci, F., *Digitalisation and Development: Issues for India and Beyond*, Springer.
- Maiti, D., and Kumar, S. Productivity Growth in India: Issues and Measurement, *India Growth and Development Review*.
- Maiti, D., and Singh, P. (2019). ICT, Access to Finance and Exportability: A Cross Country Analysis. In Maiti, D., Melchior, A. and Castellacci, F., *Digitalisation and Development: Issues for India and Beyond*, Springer.
- Maiti, D., and Singh, P. (2019). Sources of Finance, Innovation and Exportability: A Cross Country Study of Asia, *Journal of Asian Economic Integration*, 1(1): 1-24.
- Maiti, D., and Singh, P. (2020). Does FDI Favour Net Exportability? in De, P. and Raychoudhuri, A. (eds.), *25 Years of the WTO and India: A Retrospective*, Sage, New Delhi.
- Shyamsundar, P., Springer, N. P., Tallis, H., Polasky, S., Jat, M. L., Sidhu, H. S., Somanathan, R., and Cummins, J. (2019). Fields on fire: Alternatives to crop residue burning in India. *Science*, 365(6453), 536-538.
- Singh, R. (2019). Review of *The Republic of Beliefs: A new approach to law and economics* by Kaushik Basu, *Indian Economic Review*, 54: 371–380.
- Sinha, U.B., Cao, J. (2020). “Intra-brand Patent Licensing with Inter-brand Competition”, *Mathematical Social Sciences*, 104: 71-77.
- Somanathan, R. (2019). *Reading India: Selections from the Economic Weekly*, Volume 1, 1949-1965 (co-edited with Pranab Bardhan and Sudipto Mundle), Orient Blackswan.
- Somanathan, R., Afridi, F. and Barooah, B. (2020). Designing effective transfers: Lessons from India’s school meal program, *Review of Development Economics*, 24(1): 45-61.
- Somanathan, R., Almås, I. and Kjelsrud, A. (2019). A Behavior-based Approach to the Estimation of Poverty in India. *Scandinavian Journal of Economics*, 121(1): 182-224
- Somanathan, R., Baland, J. and Vandewalle, L. (2019). Socially Disadvantaged Groups and Microfinance in India” *Economic Development and Cultural Change*, 67(3): 537-569.

Somanathan, R., Bhattacharya, D. and Kjelsrud, A. (2019). Estimating the Welfare Gains from Public Schools in Rural India”, *Sankhya B: The Indian Journal of Statistics*, 114.

Journals- Published by the Department-

Indian Economic Review – a bi-annual journal of the Department of Economics

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board and Members of Committees

Banerji, Abhijit

- Associate Editor, Indian Economic Review

Bhattacharjea, Aditya

- Member, Board of Studies, Economics Divisions, Indian Institute of Foreign Trade (Deemed University), 2017-present
- Member, Board of Studies, Faculty of Economics, South Asian University, 2020- present.
- Member, Competition Law Review Committee, Ministry of Corporate Affairs, Government of India, 2018-19.

Dua, Pami

- Member, Monetary Policy Committee, Reserve Bank of India, 2016 to 2020
- Editorial Board Member, Indian Economic Review
- Editorial Board Member, Journal of Quantitative Economic
- Editorial Board Member, Journals of Developing Areas
- Editorial Board Member, Reserve Bank of India Occasional Papers
- Member, Governing Council, Madras Institute of Development Studies
- Member, Governing Body (Board of Management), Dayalbagh Educational Institute Gupta, Shreekant
- President, Indian Society for Ecological Economics, 2020-2022 (unanimously elected)
- Associate Editor, Indian Economic Review
- Editorial Board, Agricultural and Resource Economics Review
- Lead Author, Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report

Kanwar, Sunil

- President, Asia-Pacific Innovation Conference Board, Dec 2018 – Oct 2019
- Member, Scientific Committee, Asia-Pacific Innovation Conference 2019
- Vice-Chancellor’s nominee, Board of Studies, Faculty of Management Studies
- Member, Editorial Board, Manpower Journal

- Member, Editorial Advisory Board, Indian Economic Review
- Member, International Advisory Board, GCU Economic Journal

Kumar, Surender

- Member, Board of Governors, Institute of Economic Growth, Delhi
- Associate Editor, Ecology, Economy and Society (EES): An INSEE (Indian Society for Ecological Economics) Journals.
- Member Editorial Board, Economics of Disasters and Climate Change (a Springer Journal)

Maiti, Dibyendu

- Member, Core Group on Policy and EoDB for Ministry of Small and Medium Enterprises under the CII National MSME Council (2019-20)
- Member, Manav Rachana International Institute of Research and Studies
- Associate Editor, Progress in Development Studies, Sage.

Sinha, Udaya Bhanu

- Editor –in –Chief, Indian Economic Review
- Member, Academic Council, Institute of Economic Growth

Research Projects-Funding Agency, Year/Period, Title, Amount sanctioned

Deshpande, A., conducted A Research Study on Choice, Constraints and Gender Dynamics of Labour Markets in West Bengal, funded by Economic and Social Research Council (ESRC), UK, August 2016 - July 2019.

Pami D., conducted A Research Study on Indian Forecasting Model-United Nations Link Project, funded by Reserve Bank of India.

Seminars Organized-

Total Number – 30

- Organised a seminar titled ‘A Theory of Progressive Lending’ delivered by Dyotona Das Gupta at Delhi School of Economics 20th February 2020.
- Organised a seminar titled ‘The “My Name is Khan” Effect: Unexpected Celebrity Destigmatization and Pharmaceutical Demand Spillovers’ delivered by Anindya S. Chakrabarti, Indian Institute of Management Ahmedabad, 13th February 2020.
- Organised a seminar titled ‘When firms matter: Propagation of Firm-Level Shocks through Production Networks., Ritesh Jain Institute of Economics, Academia Sinica’, delivered by Girish Bahal, University of Western Australia, 31st January 2020.
- Organised a seminar titled ‘Intergenerational Mobility in India: Estimates from New Methods and Administrative Data’, delivered by Sam Asher, Johns Hopkins School of Advanced International Studies, 24th January 2020.

- Organised a seminar titled ‘Neither at Home, Nor in the Market: Low Returns to Women’s Education in India’, delivered by Sonalde Desai, National Council of Applied Economic Research and University of Maryland. 16th January 2020.
- Organised a seminar titled ‘Distribution-Sensitive Multidimensional Poverty Measures’ delivered by Gaurav Datt, Monash University, 9th January 2020.
- Organised a seminar titled ‘Social Norms, Women’s Status and Gender Differences in Competitiveness: Evidence from Field Experiments in India’s Northeast’, delivered by Sumantra Pal, Ministry of Finance, 2nd January 2020.
- Organised a seminar titled ‘The Impact of Monetary Policy in a Dual Economy’, delivered by Varsha S. Kulkarni, Harvard University, 5th December 2019.
- Organised a seminar titled ‘The Ties that Bind Us: Social Networks and Productivity in the Factory’, delivered by Farzana Afridi, Indian Statistical Institute, Delhi. 14th November 2019.

Conference/Workshop Organized-Conference, Dates, Funding Agency support

Annual Winter School 2019 was held from December 10-13, 2019 at the Department of Economics in collaboration with The Econometric Society with financial support from EXIM Bank and others. Each year the Winter School combines invited lectures by distinguished economists with parallel sessions where early career researchers present their work. Invited speakers at Winter School 2019 are listed below. In addition, there were twenty-one parallel sessions covering all areas of economics where over 100 junior faculty and doctoral students presented their research. Lectures were given by the invited speakers such as Jean-Marc Robin, Sciences Po, Paris and University College, London; V.V Chari, University of Minnesota; Ran Spiegler, Tel Aviv University and University College, London, and Edward Glaeser, Harvard University.

Seminar/Conference Presentations/lectures delivered (National/International)

Bhattacharjea, Aditya

Delivered a lecture on “Policy Transitions in the Industrial Sector in India and Causes of the Current Slowdown”, at Banasthali Vidyapeeth, October 2019.

Dua, Pami

Delivered a lecture on “Monetary Policy Framework in India” at Aryabhata College, March 2020.

Delivered a public lecture on “Monetary Policy Framework in India,” at Department of Economics, Delhi School of Economics, February 2020.

Delivered a Keynote Address on “Monetary Policy Framework in India,” at 56th Annual Conference of The Indian Econometric Society, Madurai Kamaraj University, January 2020.

Delivered a lecture on “Synchronization of Cycles during Crises: An Analysis of BRICS and US,” at Shri R. Venkataraman Endowment Lecture, Madras School of Economics, September 2019.

Delivered a lecture on “Monetary Policy and Inflation Targeting in India,” at the Workshop on Selected Macroeconomic Issues, International Monetary Fund South Asia Regional Training and Technical Center, New Delhi, September 2019.

Attended a meeting on “Determinants of Labour Productivity: Comparison of Developing and Developed Countries of Asia-Pacific,” United Nations DESA Expert Group Meeting on the World Economy (LINK Project), New York, June 2019.

Gupta, Shreekant

Delivered a lecture on “Valuing the Lifetime Earnings Component of the Stock of Human Capital in India,” at the Workshop on Impact of Air Pollution on Health, Human Capital and Sustainable Development in India, organised by Centre for Development Economics, UN Environment and Boston College, New Delhi, July 17-18, 2019.

Presented paper on “Martin Weitzman’s contributions to environmental economics,” at Tenth INSEE Biennial Conference, Hyderabad, November 6-8, 2019.

Delivered a lecture on “Climate Change: Challenges and Policy Responses,” at Administrative Staff College of India, Hyderabad, November 5, 2019.

Kanwar, Sunil

Presented paper on on “Intellectual Property Protection and FDI into Less Developed Economies in the post-TRIPs Period” at Peking University, School of Economics, Beijing, China; Asia-Pacific Innovation Conference 2019, October 11-12, 2019,

Delivered a lecture on “The Nobel Prize in Economics 2019’at Jamia Hamdard, Symposium ‘The 2019 Nobel Prizes: What Got Them the World’s Most Prestigious Award?’ November 25, 2019.

Delivered a lecture on ‘The Market Value of R&D in Emerging Economies’, at Council of Scientific and Industrial Research, Delhi, CSIR-HRDC programme on ‘Socio-Economic Impact Assessment of R&D Outcomes’, 15-17 May, 2019, May 16, 2019.

Delivered a lecture on ‘Innovation and Intellectual Property Rights’, at Hansraj College, University of Delhi, Faculty Development Programme, Department of Economics on 27 April 2019.

Maiti, Dibyendu

Delivered a lecture on “Trade, Market Imperfections and Labour Share”, Vidyasagar University, West Bengal, 20 January 2020

Delivered a lecture on “Trade, Market Imperfections and Gains”, West Bengal State University, West Bengal 22 January 2020.

Delivered a lecture on “FDI, Exportability and The Indian Economy: Challenges and Strategies for Making India a USD 5 Trillion Economy”, Bundelkhand University, Jhansi, November 2019

Delivered a lecture on “Trade, Market Imperfections and Labour Share”, UNU-WIDER and UN-ESCAP joint workshop on Transforming economies for better jobs, 11-13 September 2019, Bangkok, Thailand.

Attended a meeting on “Monetary Transformation and DSGE”, Discussion Group on Dynamics of Complex System, International Centre for Theoretical Sciences (TIFR), Bangalore, 8-12th July 2019.

Singh, Ram

Delivered a public lecture on “Current Challenges for the Indian Economy”, at Kurukshetra University, Kurukshetra, March 4, 2020.

Presented paper on “Economics of Big Data”, 4th Paradigm International Conference, Indian Institute of Science Education and Research, Bhopal. February 2020.

Presented paper on “Does Quality Depend on Choice of Contracts?” International Conference of Development Economics, ISI Delhi, December 2019.

Sinha, Uday Bhanu

Presented paper on “Trade, FDI and International Collusion” in the Conference on Economic Theory and Policy during March 12-13, 2020 at Jadavpur University, Kolkata.

Placement Details

- Number and percentage of students placed : 109
- Number of Companies visited for campus recruitment : 38

Number of M.Phil./Ph.D. Degrees Awarded:

Ph.D. : 04

M.Phil. : 01

Faculty Strength : 16

DEPARTMENT OF GEOGRAPHY

1. Major Activities and Achievements:

The Department leads in strengthening the discipline of Geography in India through its emphasis on Inter-disciplinarity, Innovation and Inclusiveness. The Department of Geography through its teaching and research activities aims for bridging the gap between the physical sciences and social sciences. Faculty members of the department have published research articles in high impact factor peer reviewed journals in this year, viz. Geomorphology, International Journal of Climatology, GI Science & Remote Sensing, Natural Hazards, Social & Cultural Geography, City, Culture & Society, Dialogues in Human Geography, Journal of Stochastic Environmental Research and Risk Assessment, etc. The department is known for its expertise in the areas of environment, remote sensing/GIS and gender studies. The Department is also receiving Special Assistance under UGC Research Support Programme DRS III (2013-18).

2. Honours/Distinctions

- Prof. S.C. Rai received “*Life Time Achievement Award, 2019*”, from Land Use Management (CLUMA), Hyderabad, Telangana during 41st Indian Geography Congress held at Dr. H.S. Gaur Vishwavidyalaya, Sagar, M.P. on 28th December 2019.
- Prof. S.C. Rai was elected Vice President, The Asian Geographical Association, Beijing, China, (w.e.f. August 2019-2023).
- Dr. Anindita Datta was elected Chairperson, IGU Commission on Gender and Geography (w.e.f 2020-2024).

3. Publications

- Arora, M, Bandooni, S. K. and Pandey, B. W. (2019). Urban agricultural land use planning for Delhi-Central National Capital Region (CNCR). *Transactions, Journal of the Institute of Indian Geographers*, 41 (2):257-270.
- Bandyopadhyay, N., Bhuiyan, C. and Saha, A. K. (2020) Drought Mitigation: Critical Analysis and Proposal for a New Drought Policy with Special Reference to Gujarat (India). *Progress in Disaster Science**, 5:100049. [ISSN: 2590-0617 (online)] [<https://doi.org/10.1016/j.pdisas.2019.100049>]
- Basumatary, M.G., and Anand, S (2020). Matrix model to analyse feasibility of smart city in Guwahati. *Journal of Global Resources*, 6(2):56-63.
- Datta, A. (2019). 'But this is not geography...!' of ontological circumcisions and writing feminist geographies from India. *Gender, Place & Culture*, 26(7-9):1103-1110. DOI: 10.1080/0966369X.2019.1609428
- Datta, A. (2020). Patriarchal bargains and a triple bind: On writing geographies of gender in India. in Shirlena Huang and Kanchana N Ruwanpura (eds) *Handbook on Gender in Asia*. Edward Elgar Publishing, Cheltenham UK and Northampton, MA USA pp 13-27, ISBN 978-178811 2901.
- Datta, A. (Ed.). (2020). *Gender, Space and Agency in India: Exploring Regional Genderscapes*. Routledge, Oxon, New York, ISBN978-0-367-82080-0
- Datta, A., Hopkins, P., Johnston, L., Olson, E., & Silva, J. M. (Eds.). (2020). *Routledge Handbook of Gender and Feminist Geographies*. Routledge. London and New York, ISBN 978- 1- 138- 05768- 5.
- De, Aparajita (2020) Beyond Cinemas: Scripting the Indian Heroine in Bollywood and Popular Film Magazines. In: Amitava Chatterjee (ed) *Historicizing Gendered Modernities in India*. Primus, New Delhi.
- De, Aparajita and Nandi, R (2019). Whats(up) with Hinduism? Digital culture and Religion Among Bengali Hindus. In: Xenia Zeiler (ed) *Digital Hinduism*. Routledge, London.
- Gautam, A., Rai, S.C. and Rai, S.P. (2020). Impact of anthropogenic activities on the alluvial aquifers of north-east Punjab, India. *Environmental Monitoring and Assessment*, 192:527, <https://doi.org/10.1007/s10661-020-08496-8>, Springer (The Netherlands) (ISSN:0167-6369).
- Heena, and Rai, S.C. (2020). Sustainable water resource management in Chhotanagpur Plateau, India. *Sustain. Water Resour. Manag.* 6, 90 (2020). <http://doi.org/10.1007/s40899-020-00453-0>, Springer (Switzerland) (ISSN:2363-5045).
- Jaiswal, S., Anand, S, and Saini, A. (2019). Analysing the soil health of Yamuna flood plains, Delhi. *The Horizon: A Journal of Social Sciences*, 10 (2):1-10.
- Johnson, R., Kuniyal, J.C., Chand, K., Diduck, A., Edward, E., Gardner, J., Pandey, B.W., Sharma, D.D. , and Singh, P. (2020). Accelerating Change: Engaging Local Communities in Disaster Risk Reduction in The Indian Himalayan Region. *Science Policy Brief*. <https://doi.org/10.17870/bathspa.c.5036990.v1> and UNDRR Prevention Web: https://www.preventionweb.net/publications/view/72456?&a=email&utm_source=pw_email
- Kumar, H., Pandey, B.W. and Anand, S. (2019). Analyzing the impacts of forest ecosystem services on livelihood security and sustainability: a case study of Jim Corbett National Park in Uttarakhand. *International Journal of Geoheritage and Parks*, 7, (2): 45-55.

Kumar, P., Liu, W., Chu, X., Zhang, Y., and Li, Z.H. (2019). Integrated water resources management for an inland river basin in China. *Watershed Ecol. Environ*, 1:33–38.

Kumari, M. and Rai, S.C. (2020). Hydrogeochemical evaluation of groundwater quality for drinking and irrigation purposes using water quality index in semi-arid region of India. *Journal of Geological Society of India*, 95(2):159-168, Springer (The Netherlands), (ISSN:0016-7622).

Malik, M. and Rai, S.C. (2019). Drivers of land-use/cover change and its impact on Pong Dam wetland. *Environmental Monitoring and Assessment*, 191(4):203, Springer (The Netherlands) (ISSN:0167-6369). <https://doi.org/10.1007/s10661-019-7347-x>.

Maurya, R., Negi, V. S., and Pandey, B. W. (2020). Spatio-temporal analysis of land use/land cover change through overlay technique in Kinnaur District of Western Himalaya. *Sustainability, Agri, Food and Environmental Research (SAFER)* (ISSN: 0719-3726), 8(X). <http://dx.doi.org/10.7770/safer-V0N0-art2161>

Medhi, A., and Saha, A.K. (2019). Rural Road Extraction using Object Based Image Analysis (OBIA): A case study from Assam, India. In: Fujita, H. (Ed.) *Advances in Cartography and GIScience of the International Cartographic Association*, Copernicus Publications, Germany, 1:13 [eISSN:2570-2084] [<https://doi.org/10.5194/ica-adv-1-13-2019>]

Mishra, A.K. and Rai, S.C. (2019). Assessment of spatio-temporal variability of temperature using geo-statistical techniques: a case study of Upper Teesta River basin, India. *Environmental Sustainability*, Springer, (ISSN:2523-8922) <https://doi.org/10.1007/s42398-019-00049-1>.

Mishra, A.K. and Rai, S.C. (2020). Geo-hydrological inferences through morphometric aspects of the Himalayan glacial-fed river: a case study of the Madhyamaheshwar River Basin. *Arabian Journal of Geosciences*, 13:533, <https://doi.org/10.1007/s12517-020-05571-9>, Springer (The Netherlands), (ISSN:1866-7511).

Mishra, A.K., Srivastava, A., Upadhyay, A., and Rai, S.C. (2019). Probabilistic groundwater recharge zonation in hard rock terrain using geospatial techniques in Veniar watershed, South India. *Ecohydrology & Hydrobiology*, Polish Academy of Sciences, Elsevier, (ISSN:1642-3593) <https://doi.org/10.1016/j.ecohyd.2019.01.004>.

Mishra, H and Pandey, B. W. (2019). Navigating the impacts of social and environmental changes to traditional lifestyle: a case study of Gaddi Transhumance of Chamba District in Himachal Pradesh. *The Oriental Anthropologist*, 19(2): 326-337. DOI: 10.1177/0972558X19862391. ISSN: 0972558X.

Mishra, P.K., and Rai, S.C. (2020). Role of indigenous knowledge in smart agriculture farming system in the Himalayas, pp.130-148. In: *Smart Agriculture: Ancient Wisdom and Modern Technology*, (ed) Punyatoya Patra, Roshani Devi and Gaurav Sikka. Rawat Publication, Jaipur, India, (ISBN:9788131611371).

Mishra, P.K., Rai, A., and Rai, S.C. (2019). Agronomic measures in traditional soil and water conservation practices in Sikkim Himalaya, India. *American Research Journal of Agriculture*, 5(1):1-16 (ISSN:2378-9018).

Mishra, P.K., Rai, A., and Rai, S.C. (2020). Indigenous knowledge of terrace management for soil and water conservation in the Sikkim Himalaya. *Indian Journal of Traditional Knowledge*, 19 (3): 475-485, CSIR, NISCAIR, New Delhi, (ISSN: 0972-5938).

Mishra, P.K., Rai, Aman and Rai, S.C. (2020). Land use and land cover change detection using geospatial techniques in the Sikkim Himalaya, India. *The Egyptian Journal of Remote Sensing and Space Sciences*, 23 (2):133-143, Elsevier, (ISSN:1110-9823) <http://doi.org/10.1016/j.erjs.2019.02.001>.

Mondal, B., Saha, A.K. and Roy, A. (2019) Mapping Mangroves using LISS-IV and Hyperion Data in part of the Indian Sundarban . *International Journal of Remote Sensing*, 40(24):9380-9400. [ISSN: 0143-1161 (Print) 1366-5901 (Online)][\[https://doi.org/10.1080/01431161.2019.1630784\]](https://doi.org/10.1080/01431161.2019.1630784)

Naithani S. and Saha, A.K. (2020). *Social Capital and Livelihood Strategies in Response after 2013 Kedarnath Disaster (India)*. *Disaster Prevention and Management*. [ISSN: 0965-3562 (Print)] [\[https://doi.org/10.1108/DPM-07-2019-0221\]](https://doi.org/10.1108/DPM-07-2019-0221)

Naithani, S., and Saha, A. K. (2019). Changing landscape and ecotourism development in a Large Dam site: A Case Study of Tehri Dam, India. *Asia Pacific Journal of Tourism Research*, 24(3):193-205. [ISSN: 1094-1665 (Print) 1741-6507 (Online)] [\[https://doi.org/10.1080/10941665.2018.1557226\]](https://doi.org/10.1080/10941665.2018.1557226)

Rai, S.C. (2019). *Geoenvironment of Manipur*. Ane Book Pvt. Ltd., New Delhi, 172 p., (ISBN: 978-93-88264-43-3).

Rai, S.C. and Mukherjee, Roy, N (2019). Spatio-temporal change delineation of snow/ice covered region in Sikkim Himalaya using geospatial techniques, pp. 34-41. In: *Proceedings of the International Conference on Earth Observation and Natural Hazards, 2019*. Organized by Institute of Geography, Vietnam Academy of Sciences, Hanoi from 18-22nd November 2019, (ISBN:978-604-913-923-9).

Rai, S.C. and Rai, S (2019). Impact of urbanization on portable water in Sikkim Himalayas. *Political Economy Journal of India*, 28 (1&2):82-90, (ISSN:0971-2097).

Ranjan, Om Jee, Anand, S., Pandey, B. W., and Kumaria, P. (2020). Spatial analysis of physio-climatic changes and its impact on human adaptation in Tawang Valley: a case study of Monpa Tribe, Eastern Himalaya. *The Eastern Anthropologist*, 73 (1): 125-138. ISSN: 0012-8686.

Roy, N., Pandey, B.W., and Rani, U. (2020). Protecting the vanishing geo-cultural heritage of India: case study of Majuli Island in Assam. *International Journal of Geoheritage and Parks*. PII: S2577-4441(20)30013-7. DOI: <https://doi.org/10.1016/j.ijgeop.2020.03.003> ISSN: 2577-4441, e-ISSN: 2577-445X

Singh, B., Vishwendra., R and Sen, A. (2019). Mapping of Physical Vulnerability in Tiger Habitat Areas: A Case Study of Tiger Corridor of Rajasthan, India. *Proceedings of International Cartographic Association*, Volume 2, Item 118: 1-8. ISSN: 2570-2092. <https://doi.org/10.5194/ica-proc-2-118-2019>

Singh, R.B., Srinagesh, B., and Anand, S. (Eds.) (2020) *Urban Health Risk and Resilience in Asian Cities*, Springer, Singapore, (ISBN 9789811512056).

Tyagi, S and Rai, S.C. (2020). Monitoring shoreline changes along Eastern coast of India using geospatial techniques. *Indian Journal of Geo Marine Sciences*, 49 (2):218-224, CSIR, NISCAIR, New Delhi, (ISSN:0379-5136).

Yadav, S., and Anand, S. (2019). Green Revolution and Food Security in India: A Review. *National Geographical Journal of India*, 65, (3):311-322.

4. Journal Published by the Department

- Annals of the National Association of Geographers, India

5. Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board

Nil

6. Research Project

B. W. Pandey. British Council International Collaboration: UGC-UKIERI-III Project on "(HiFlo-DAT): Indian Himalayan Flood Database, for Disaster Risk Reduction" between University of Delhi, India and University of Bath Spa, UK (2018-2020).

B. W. Pandey, Project Director: Impactful Policy Research in Social Sciences (IMPRESS) Indian Council of Social Science Research (ICSSR) Ministry of Human Resource Development (MHRD) Major Research Project (April 2019-March 2021). "Assessing Human Adaptability for Building Policy Framework against Climate Variability in High Altitude Basins of Leh, India". S.C. Rai, PI. "Climate Variability and its Impact on Agro-biodiversity and Livelihood Security in Traditional Farming of the Sikkim Himalaya". This Project is funded by G.B. Pant Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora-263643, Uttarakhand, (April, 2018-2021).

Kumar, P. undertook a research project as a Co-PI "Joint Validation of Multi-Source Remote Sensing Information and Sharing in BRICS Countries". Received BRICS CALL grants of BRICS STI Cooperation from International Cooperation (Multilateral / Regional) division of Department of Science and Technology (DST), Government of India (2019-2021).

Datta, A. conducted a research on EQUIMOB: Inclusive Cities through Equitable access to Urban Mobility Infrastructures, University of Utrecht, Netherlands. Funding Agency: NWO, Netherlands Year: 2019, Period: 2019-2024 years.

Datta, A. conducted a research on GENURB Urbanization, Gender, and the Global South: a transformative knowledge network. Funding Agency: Social Sciences & Humanities Research Council of Canada (SSHRC) Year: 2020-2023 Period:3 years.

7. Patents Filed/Granted:

Not Applicable

8. Seminars Organized:

Not Applicable

9. Conferences Organised:

Conference Title: g 19: Rethinking Knowledge Regimes: Solidarities and Contestations Date: October 7-8, 2019, Funding Agency/ Support: Swedish South Asian Studies Network (SASNET). Conference session 'Rethinking Asymmetries—Building Global Solidarity: Feminist Collaboration, Conceptualization, and Decolonization' in International Conference 'g 19: Rethinking Knowledge Regimes: Solidarities and Contestations' October 7-8, 2018, organized by the Swedish Secretariat for Gender Research and University of Gottenburg, Sweden (in collaboration with Prof HelleRydstrom, Department of Gender Studies, Lund University, Sweden).

10. Seminar/Conferences Presentations

Bhairnawar, Kiran

“Writing Social Stories, Thesis, Reports and Research Papers” at the Research Methodology for Social Sciences Workshop organised by Council for Social Development, New Delhi, 19th December 2019.

“The Role of Student’s Union in an Institution” at Delhi School of Economics organised by DSE Collective, University of Delhi, Delhi, 30th September, 2019.

De, Aparajita

Unburdening Cartography: Making Mapping Kewl”, at the Critical Cartography workshop on Chitpur Local Project, at Hamdasti, Kolkata on 14th September, 2019.

“I Map, You Map, We Map: Experimental Cartography and Everything-o-graphy”, at the Critical Cartography workshop on Chitpur Local Project, at Hamdasti, Kolkata on 15 September, 2019.

Public Heritage: New Media and the Making of Digital Heritage and Consciousness, in 3rd International Conference on Heritage Management.

“Rethinking Asymmetries – Forging solidarities: Feminist collaborations in a neo liberal world” in g-19 conference in session co- organized with HelleRydstrom ‘Rethinking asymmetries –Building Global Solidarity: Feminist Collaboration, Conceptualization, and Decolonization, at Gottenburg, Sweden on 8th October 2019.

“Conversations, Collaborations and Care– Feminist solidarities in a neo liberal world” in Public Seminar organised by SASNET and Department of Gender Studies at Lund University, Sweden, 3rd October 2019.

Presented a Paper in the 115th Annual Meeting, 2019 organised by the American Association of Geographers (AAG) at Washington DC, USA on 4-9/4/2020,

Pandey, Bindhy Wasini

Presented Research paper on “Geo-environmental Hazards in Himalaya” and performed as Recorder in Earth System Sciences Section (ESSS) of Indian Science Congress Association (ESCA) at University of Agricultural Sciences, Bangalore, January 03-07-2020.

Presented Research paper on “Climate Change Adaptation and Vulnerability Assessment: A Case Study of Lesser Himalaya” in the 2nd International Conference Our Climate 2019 Our Future - Regional Perspectives on a Global Challenge, at Alfred Wegner Institute Helmholtz Centre for Polar and Marin Research, Bremerhaven for REKLIM, Berlin, Germany on September 23-25, 2019.

Presented a paper on “Assessing Adaptability against Climate Variability in Tawang Valley India: A Local Perspective Approach” in ICSSR-IMPRESS National Seminar on Spatial Dimensions of Environmental Problems and Natural Resource Law at Department of Geography, Shaheed Bhagat Singh College, University of Delhi on September 03-04-2019.

Presented a paper on “Sustainable Adaptation Techniques for Livelihood Security through Organic Farming in Assam.” in National Conference on Historical Geographies of Location and Cultural Evolution in India, organized by Department of Geography, Shaheed Bhagat Singh College and The Association for Geographical Studies (AGS) at Department of Geography, Delhi School of Economics, University of Delhi, Delhi on April 13-14-2020.

Rai, Suresh C.

Delivered a Keynote address on “Earth Observation and Natural Hazards”, in International Conference organised by Institute of Geography, The Vietnam Academy of Sciences, Hanoi, Vietnam, 18-22nd November 2019.

Attended and Presented a Research Paper on “Geography 2019 & 110th Anniversary of the Geographical Society of China” in the Conference held at IGSNRR, Beijing, P. R. China, 31st October to 5th November 2019.

Delivered a Keynote address on “Research Methodology”, in the Two Weeks National Level Workshop, organized by Government College, Rhenock, Sikkim, 7-21st Feb. 2020.

Chaired a Session on Social Science and National Building: Issues and Challenges”, in the Seventh Northern Regional Social Science Congress, organized by Indian Council of Social Sciences Research, NRC, New Delhi and U.P. Rajarshi Tandon Open University Prayagraj, U.P., 2-4th Feb. 2020.

Attended and Presented Paper in the 41st Indian Geography Congress, held at Dr. H.S. Gaur Vishwavidyalaya, Sagar, 28-30th December 2019.

Attended and Presented Paper on “Climate Change and Sustainable Development: Issues and Policy Initiatives”, in the National Conference organized by Department of Geography, S. S. Jain Subodh PG College, Jaipur, 23-24th December 2019.

Delivered a Keynote address on “Water Security and Sustainability”, in the 1st International Conference organized by Department of Civil Engineering, Sikkim Manipal Institute of Technology, Majhitar, Sikkim, 13-14th December 2019.

Attended and Delivered Lecture on “Water Resource, Climate Change and Sustainability”, in the International Conference organized by Centre for Sustainable Development and Institute of Public Enterprise, Osmania University Campus, Hyderabad, 27-28th September 2019.

Delivered a Keynote address on “Environmental Degradation and Conservation”, in the National Seminar organized by Miss A.E. Dass Memorial Trust Jaipur on 5th June 2019, on World Environment Day.

Attend and Delivered Lecture on “Climate Change, Biodiversity and Urban Environment: Current Trends and Challenges in the Conservation of Urban and Peri-urban Biodiversity”, in the National Seminar held at University School of Environment Management, Guru Gobind Singh Indraprastha University, Dwarka, New Delhi on 26th April 2019.

11. International MoUs Signed: None

12. Other Inter-Institutional Collaborations:

- S. C. Rai: Member, Board of Studies, Department of Geography, Sikkim Central University, Tadong, Gangtok, Sikkim, Since January 2020.

13. Students under Exchange Programmes: N.A.

Inbound/Outbound

14. Placement Details

Department of Geography coordinates with Central Placement Cell of Delhi University.

15. Extension and Outreach Activities: NA

16. Number of M. Phil/Ph. D. Degree Awarded

Ph. D. : 8

M. Phil. :18

17. Faculty Strength: 10**18. Other Significant Information: N.A.**

DEPARTMENT OF HISTORY**Major Activities and Achievements**

One of the founding departments of the University, the History Department is currently a Centre of Advanced Studies with thirty faculty members. They are renowned as thinkers and contributors to the global discipline of History and as specialists in their respective domains of research. The Department has a Computer Centre, Department Library and Department Museum with an extremely rare collection of miniatures, manuscripts and artefacts. Our MA and MPhil programmes are one of the most rigorous in India and three-five students annually secure full fellowships to top ranked international Universities. In 2019-20 our faculty gave key note addresses in National and International fora; our Seminar Series hosted prominent international and national scholars. During 2019-20 the Department of History organised two workshops, one on 'Exploring Inclusive Narratives of Indian Religious Cultures', and another on 'Literature, Narratives, History', and seventeen seminars. Our History Research Scholars Forum organized the Eighth Annual 'Research Students Conference' a national gathering of research students.

Publications:

Aquil, R. (2020). *Lovers of God: Sufism and the Politics of Islam in Medieval India*, London: Routledge.

Chaudhary, M. (2020). *Delhi: A History*, Delhi: Rupa Publications.

Jafri, Sayyid Z.H. (2020). *Delhi and Awadh during 1857 Studies, Images and Documents*, Delhi: Gyan Publishing House.

Mohapatra, P. P. (2019). *India and the ILO: Chronicle of a Shared Journey, 1919-2019*, Geneva: ILO.

Sahu, B. P. (2020). *The Making of Regions in Indian History: Society, State and Identity in Premodern Odisha*, Delhi: Primus Books.

Raziuddin, A., and Mukherjee, T., (Eds). (2020). *An Earthly Paradise: Trade, Politics and Culture in Early Modern Bengal*, New Delhi: Manohar and London: Routledge.

Farooqui, A, Pius, M., and Vardarajan, L. (Eds.) (2019). *India, the Portuguese and Maritime Interactions: Vol. I, Science, Economy and Urbanity; Vol. II, Religion, Language and Cultural Expressions*, New Delhi: Primus.

Gupta, C and S. Shankar, (eds). (2019). *Caste and Life Narratives*, Delhi: Primus Books.

Alavi, S. (2019). Slaves, Arms and Politics in 19th Century Oman. In Tagliacozzo, E., Helen Sue and Peter Purdue (eds) *Asia Inside Out*, USA: Harvard University Press.

- Arafath, Y. (2020). Cassetted Emotions: Intimate Songs and Marital Conflicts in the Age of Pravasi (1970-1990). In Banerjee, R., (ed.) *Writing India: Cultural Histories, Peripheral Genres, and Alternative Historiographies*, London: Routledge.
- Balachandran, A. (2019). Petitions, the City and the Early Colonial State in South India, *Modern Asian Studies*, 53 (1), pp. 250-76.
- Bawa, S. (2019). Contextualizing Progressives: Artistic Modernity or Continuum, exhibition catalogue, *Contextualizing Progressives: Indian Art in the Twentieth Century*, New Delhi and Arts Glaccerhi: India International Centre.
- Bawa, S. (2019). The Language of Chaos: Forms and Textures in Pallav Chander's Art, exhibition catalogue, *Tomorrow Belongs to Me*, Delhi: Alliance Française.
- Bawa, S. (2019). Vehemence, Passion and Vitality, Pallav Chander's Visual World, *Art and Deal*, 15 (130), 96, pp. 65-66.
- Bawa, S. (2020). Amid Deep Silences and Sinuous Movements: The Art of Harshdeep Kaur, *Art and Deal*, 138 (105).
- Choudhary, M. (2019). Rait hu Dher Nahi: Thar ke Ek Jhalak' [in Hindi], *Himanjali*, 19, Jan-June, IIAS, Shimla, pp. 60- 4.
- Deshpande, A. (2019). The Indian Army 1850-1950. In Ludden, D., et. al., (Eds.), *Oxford Research Encyclopaedia of Asian History*, New York: Oxford University Press.
- Deshpande, A. (2020). Shivaji Maharaj and his Layered and Contested Memory, *Mainstream*, LVIII (15).
- Dhar, P.P. (2019). Pride and Penitence of an Anti-Hero: Rāvaṇānugraha as Motif and Metaphor in India and Campā'. In Griffiths, A., Hardy, A., and Wade, G., (Eds.), *Champa: Territories and Networks of a Southeast Asian Kingdom*, proceedings of an international conference, New Research in Historical Campā Studies, Paris: Études thématiques de l'EFEO, pp. 355-373.
- Dhar, P.P. (2019). Piecing a Puzzle: A Unique Torana from Phanigiri, Telangana. In Ganvir, S., Dalavi, H., and Wirkud, H., (Eds). *Telangana through Ages: Perspectives from Ancient and Medieval Periods*, proceedings of the second international seminar, Hyderabad: Department of Heritage, Telangana, pp. 48-62.
- Dhar, P. P. (2019). Characterizing Contrariety: Representing Rāvaṇa in the Early Western Deccan, *Berliner Indologische Studien/ Berlin Indological Studies*, 24, pp. 131-64.
- Govind, R. (2019). Sovereignty, Religion, Law in the British Empire. *Studies in History*, 35 (2), pp. 218-49.
- Govind, R. (2020). The Ethical Stakes of Critique. *Cultural Critique*, 107, pp. 150-65.
- Gupta, C and S. Shankar (2019). My Birth is My Fatal Accident: Introduction to Caste and Life Narratives. In S. Shankar and Gupate, C., (Eds.). *Caste and Life Narratives*, Delhi: Primus Books, pp. 1-15.
- Gupta, C. (2019). Speaking Self, Writing Caste: Recovering the Life of Santram BA. In S. Shankar and Gupta, C. (Eds). *Caste and Life Narratives*, Delhi: Primus Books, pp. 19-46.
- Gupta, C (2019). Kajrari "Kulta": Hindi Print, Savarna Lekhan aur Dalit Stree ka (Ku) Chitran [Hindi Print, Dominant Caste Writing and (Mis) Representation of Dalit Women], *Tadbhav*, 39: 39-59.

- Gupta, C. (2019). Servants and Mistresses: Literary and Legal Sketches in Early Twentieth-Century Uttar Pradesh. In Sinha, N., and Varma, N., (Eds). *Servants' Pasts: Late-Eighteenth to Twentieth-Century South Asia, Vol. 2*, Hyderabad: Orient Blackswan, pp. 217-37.
- Gupta, C. (2019). Dhaara ke Viruddh: Stri, Hindi Print Sanskriti aur Abhilekhagaar [Against the Stream: Women, Hindi Print Literature and Archives], in Badri Narayan and Suneet Singh, eds, *Humari Chunautiyan*, Delhi: Rajkamal Prakashan, pp. 53-81.
- Gupta, C (2019). Gandhi on Cow, Ram Rajya and Hinduism. *National Herald*, 3 (1), 6 October, p. 2.
- Gupta, C (2019). Shuddhi, Go-Raksha aur Ram Rajya par Gandhi ke Vichaar' [in Hindi], *Sunday Navjeevan*, 20 October, p. 8.
- Gupta, C., (2019). Women, Gender, Sexuality: Reframing Historiographies of Colonial India. In Irfan Habib (Ed.) *Aligarh Historians Society Seminar: Women in India: Reconstructing Women's History*, Aligarh: Aligarh Historians Society, pp. 125-39.
- Gupta, C., 2020. Cast(e)ing and Translating Sex in the Vernacular: The Writings of Santram BA in Hindi. *Porn Studies*, 7 (1), pp. 19-35.
- Gupta, C., (2020). Malleability of the Vernacular: Personal Anecdotes. *South Asian Review*, 41 (2), pp. 197-99.
- Gupta, V. (2019). Some Aspects of the Rights and Laws of Disabled Persons in India Since Independence. *Inclusive*, 1 (15).
- Gupta, V. (2020). Combating Educational Inequality: Competing Frameworks. In Jyoti Raina, J., (Ed.) *Elementary Education in India: Policy Shifts, Issues and Challenges*, Delhi: Routledge, pp. 249-83.
- Jafri, S.Z.H. (2019). '1857 key Vidroh mein Dharm: Teen Dastavez' [in Hindi], *Itihas Drishti*, 14-15, pp. 46-58.
- Jafri, S.Z.H. (2020). Review Article: Muslims of Bengal: An Analysis of Some Perspectives [1870's-1990's]. *Journal of the Asiatic Society of Bangladesh [humanities]*, 64 (2), pp. 251-69.
- Jain, S. (2019). Representations and Perceptions: Portuguese-Jain Interactions in Mughal India. In Malekandathil, P., Vardarajan, L and Farooqui, A (Eds) *India, the Portuguese and Maritime Interactions: Vol. II, Religion, Language and Cultural Expressions*, Delhi: Primus.
- Kumar, S, Prasad, J., and Yadav, A. (Eds). 2019. *Proceeding of the Haryana History Congress, 3rd Session* (2018), New Delhi: Haryana History Congress.
- Kumar, S. (2019). Theorising Service with Honour: Medieval and Early Modern (1300-1700) Responses to Servile Labour. In Sinha, N., Varma, N., Jha, P., (Eds.). *Servants' Pasts: Sixteenth to Eighteenth Century South Asia*, Delhi: Orient Blackswan, pp. 227-53.
- Kumar, S and Lata. 2020. Discrimination and Brutality in America, Africa and India: A Historical Study of Emotions in North and South. In Gali V. K., (Ed.). *North South Imbalances in Global Arena*, Hyderabad: Andhra Law Times.
- Kumar, S. (2020). Constitution, Equality and Social Harmony for National Integrity: A Historical Analysis. *Studies in Place Names*, 40 (68).

Misra, S. (2019). Bengali Communities in Colonial Assam. In Ludden, D. et al. (Eds.) *Oxford Research Encyclopedia of Asian History*, New York: Oxford University Press.

Rai, S.K. (2019). Gandhi in Champaran and Beyond: A Non-Violent Modernist and His Relevance in Our Times, In Hambling, A. (Ed.). *Contemporary Icons of Nonviolence*, Newcastle: Cambridge Scholars Publishing, pp. 24-46.

Rai, S.K. (2019). Mahatma Gandhi: A Champion of Freedom and Civil Liberties. *National Herald*, 1 (51), 13 October, p. 10.

Rai, S.K. (2019). Mahatma aur Azadi ke Mayne. *Sunday Navjivan*, 1 (51), 13 October, p. 8.

Rai, S.K. (2020). Review Article: Aishwary Kumar, *Radical Equality: Ambedkar, Gandhi, and the Risk of Democracy*, and Ajay Skaria, *Unconditional Equality: Gandhi's Religion of Resistance*, *The Indian Economic & Social History Review*, 57 (1), pp. 129–33.

Sahu, B.P. (2019). Regions and Early Indian Economic Historiography: Socio-Economic Transformations in Kalinga and Dakshina Kosala. In Sarkar, N., and Verma, V.K. (Eds.) *Streaming the Past: Peninsular India in History*, Delhi: Primus Books, pp. 213-30.

Sahu, B. P. (2019). Trade and Traders: An Exploration into Trading Communities and their Activities in Early Medieval Odisha, *Studies in People's History*, 6 (2).

Singh, V. L. (2019). Imaging Women in Ancient Indian Context. In Chakrabarty, D.K. (Ed.). *History of Ancient India, Vol. VI*, Delhi: Vivekanand International Foundation and Aryan International Publishers.

Singh, V.L. (2019). Sacred and Profane in the Religiosity of Brahmanical Banaras: Past to Present. *Journal of Historical Archaeology and Anthropological Sciences*, 4, (3), Medcrave, open access.

Singh, V. (2020). Cyclones, Shipwrecks and Environmental Anxiety: British Rule and Ecological Change in the Andaman Islands, 1780s to 1900s. *Global Environment: A Journal of Transdisciplinary History*, 13 (1), pp. 166-94.

Sinha, S. (2019). Engendering the Material body: A Study of Sanskrit Literature, *Social Scientist*, 47 (7-8), pp. 31-52.

Research Projects:

Dr. Vipul Singh, 2016-2020. Project partner in Simone Müller (PI) DFG Emmy-Noether Research Group 'Hazardous Travels. Ghost Acres and the Global Waste Economy', Rachel Carson Center, Munich (Germany).

Prof. Amar Farooqui and Dr. Prabhu Mahapatra, 2016-continuing. Weatherhead Initiative on Global History, Harvard University, Delhi University and others in The Global History Network.

Seminars Organised by Department:

Total Number: 17 (Seventeen)

- Duara, Prasenjit, Duke University on 'Revisiting the Chinese World Order: Soft Power or the Imperialism of Nation-States' on 10th April 2019
- Patrick Olivelle, University of Texas: 'Ascetics (*pravrajita*) and Householders (*grhastha*): New Insights into the Origin of Dharmaśāstra' on 2nd August, 2019

- Nivedita Menon, Jawaharlal Nehru University: ‘Feminist Debates Around Sexuality and the Law’ on 14th August, 2019
- Janaki Nair, Jawaharlal Nehru University: ‘The ‘Monarchical Modern in the Making of Mysore City’ on 4th September, 2019
- Whitney Cox, University of Chicago: ‘Insurgent Brahmanism: Yamunacharya as social theorist of Cholamandalam’ on 11th September 2019
- Philippe Buc, University of Vienna: *Baithak* discussion of three articles, 18th September, 2019
- Ania Loomba, University of Pennsylvania: ‘Revolutionary Desires: Women in Radical Politics’, 16th October 2019
- Charu Gupta, University of Delhi: ‘Vernacular Sexology from the Margins’, 23rd October, 2019
- Yogesh Snehi, Ambedkar University: ‘Father, Son and the Making of Early Sikh Tradition’. 30th October 2019
- Haimanti Roy, University of Dayton: ‘Paper Lives: Mobility, Citizenship and Belonging in Post-colonial India’, 6th November 2019
- Radhika Singha, Jawaharlal Nehru University: ‘How Hoarding Rupees Helps the Germans: War finance and War propaganda 1917-19’, 13th November 2019
- Nitin Sinha, Leibniz-ZMO, Germany: ‘Master-servant regulations in colonial India, 1760s–1810s’, 20th November 2019
- Jae-Eun Shin, Institute for Advanced Studies on Asia, University of Tokyo: ‘Descending from Demons, Ascending to Kshatriyas: Genealogical Claims and Political Process in Pre-modern Northeast India, the Chutiyas and the Dimasas’, 3rd January 2020
- Purushottam Agrawal, (retired), Centre of Indian Languages, JNU: ‘The Age of Marriage Debate in a 17th Century Text’, 8th January 2020
- Ravish Kumar, 2019 Ramon Magsaysay Award winner and NDTV Managing Editor: ‘History in the times of Memes and TikTok’. 22nd January 2020
- Arup Banerjee, (retired), Department of History, Delhi University: ‘The horizon on the Tien Shan range and the Trans-Caspian deserts: The making of Russia’s southern boundary’. 29th January 2020
- Richard Davis, Bard College: ‘Religious Cultures of Ancient Vidisha: Buried Yakshas, Displaced Garudas, and Buddhist Burial Mounds’, 5th February 2020

Conferences and Workshops Organised:

Total Number: 3 (Three)

Workshop: 7 February 2019: Prof. Richard Davis, Bard College: Incorporating the Material and the Textual: Exploring inclusive narratives of Indian Religious Cultures.

Abstract: The Workshop expands on questions posed in my Wednesday talk and explores questions of representation in early Indian religious history while writing a broad narrative history of religions. The question I pose to myself, and would love to discuss with the workshop audience, is how to find ways to include the religious perspectives and practices of those groups (women, lower classes, outsiders of various categories) that were not in positions to have those perspectives articulated and transmitted in textual forms.

Annual Research Scholars Conference: 11-13 February 2019: Micro-History and the Things We Don't Know About It.

Abstract: Global histories, connected histories, histories of localities or regions, micro-studies and histories that speak of large or small scales of time, implicitly draw their terminologies from their understanding of what micro-history is or can be. The dialogic interaction and reconciliation between macro- and micro-history needs to be pursued. This conference therefore explores the varied ways in which the micro and macro may be reconceptualised, and encourages a dialogue between the two ends of the spectrum.

Workshop: 26 February 2019: Literature, Narratives, Histories

Abstract: The main thrust of the Workshop concerns the idea that narratives are common to literature and history but the use the two disciplines make of them is distinct. One might be useful for and indispensable to the other and vice versa. But what are the different layers of connect between the two—in terms of register, genre, authorship, audience, sense of time and place, and so on? How best may we explore and problematize these? The Workshop will primarily consider 'Hindi' literature and its cognates. In the context of current historiographies and concerns, what is (and has been) at stake in literary history? What are the problems and how can one address them? The Workshop will consider general as well as specific problems and examples.

Seminar/Conference Presentations/lectures delivered (National/International)

National : 90 (Ninety)

International : 19 (Nineteen)

Alavi, Seema

'Unani Healing, Religion and Politics', in the International conference on Religion and Medicine, at Zurich University, Switzerland on 14th May 2019.

'Muslim cosmopolitans in the age of Empire', in the International conference on Crossing Boundaries, at Asia Center, Tokyo University, Japan on 9th June 2019 'Muslim Cosmopolitanism', at Melbourne Law School, Australia, 23rd August 2019.

'The Arabic Interlude in the Transition to East India Company Rule: Unani Healing in 18th Century India', at Shahid Bhagat Singh College, Delhi University, 18th February 2020.

Delivered keynote address titled 'Claiming and Making of Muslim Worlds', at Zentrum Moderner Orient (ZMO), Berlin, Germany, 4 April 2019.

Delivered keynote address titled 'Mughal Literary Culture' at the Workshop, AHS, Lucknow, 8 August 2019.

Delivered a lecture titled 'Indian Muslims in the age of Empire', Eliyahu Eilath Annual Lecture, Hebrew University, Jerusalem, 23 November.

Arafath, Yasser

'Casseted Emotions: Intimate Letters and Marital Space in the Age of Pravasi (1970-1990)', in The Workers Arts and Heritage Centre and South Asian Visual Arts Centre, at Richmond, Toronto on 14th September 2019.

‘Mappila Model of Mobility: An Inspirational Paradigm for South Asian Muslims?’ in the Conference on State and Politics in Muslim Societies, at India Islamic Cultural Center, New Delhi on 27th November 2019.

‘Exploring Sovereignty and Charisma: Engagements, Contestations and Fabulations from the Global South’, at the Centre for Development Studies, Thiruvananthapuram on 17th December 2019.

‘Dancing Prayers: Performative Print, Gendered Piety and Return of Fasad in Colonial Malabar’, in the International Arabi-Malayalam Conference, at Farook College, Calicut, on 6th January 2020.

‘Malabar in West Asia: Spousal Emotions, Marital Space and Technology in the Age of Pravasi (1950-1990)’, in the Two-Days International Seminar on India’s Emerging Relations with West Asian Countries: A Global Perspective, at Jamia Millia Islamia, on 27th January 2020

Ahmad, Saifuddin.

‘Cultivation of an Innovating Style: The Knowledge of Linguistics and Philology in the Eighteenth Century with reference to Sirajuddin Ali Khan-i Arzu’, International Conference on ‘Forms of Knowledge and Intellectual Traditions in South Asia’, Nehru Memorial Museum & Library, New Delhi, 10-11 July, 2019.

‘*Rekhta kyun ke ho rashk-i Farsi*: The Sway of Persian on Literary Culture of India in the Eighteenth Century’, National Conference on ‘Persian Historiography During the Later Mughals’, Department of Persian, Faculty of Arts, University of Delhi, 13-14 February 2020.

Aquil, Raziuddin

‘Three Mughal Poets: How and Where to Locate Them?’, in National Seminar on Texts and Textuality in Early Modern India, Department of Modern Indian Languages and Literary Studies, University of Delhi, 3 March 2020.

Balachandran, Aparna

‘Digitization and the Historians' Craft’, in the Workshop on Cultures of Archival Research, at University of Marburg and ICHR, Berlin, on 18th May 2019.

‘Reading the Colonial Petition: Urbanism, Law and the State in South India’, JGU Historians Symposium, Jindal Global Law School, on 7th September 2019

‘Collective Memory, Urban History and Colonialism: The Case of Coronation Park’, Department of Germanic and Romance Studies, on 7th March 2020.

Bawa, Seema

‘Representing the Discourse of Pleasure: The Kamaloka scenes at Mathura’, Mathura: Archaeology of Inter-religious encounters in Ancient India, at the Workshop by CERES, at Ruhr University, Bochum, Germany on 25th -27th July 2019.

‘Śāstra, Śilpa and Praxis: Aesthetics and Piety within the Normative Tradition’, in the International Conference on ‘Forms of Knowledge and Intellectual Traditions in South Asia’, at Nehru Memorial Museum and Library on 10-11th July 2019.

‘Perspectives of Indian History’, at Zakir Husain Delhi College, on 28th August 2019.

‘Indian Art and Archaeology up to 1200 CE’, at Deen Dayal Upadhyaya College, University of Delhi, on 24th September 2019.

‘Imaging and Imagining Gandhi in the Pedagogic Discourse’, National Discussion Meet on ‘The Relevance of Gandhian Educational Ideas and Experiments: Implications for Policy and Practices’, at NIEPA, New Delhi, 4 -5 October 2019.

‘Progressives (?): Interrogating Modernity in 20th Century Art’, in the Seminar on Contextualizing Progressives: Indian Art in the Twentieth Century, at India International Centre, New Delhi and Arts Glacerhi, on 19th October 2019.

Delivered presidential address during Ancient India Section entitled, ‘Heads of Haryana: Contextualized Reading of Sculptural Remains from Early Historic Period’, Proceeding of Haryana History Congress, 2019.

Choudhary, Manisha.

‘The Carriers of Culture: Banjaras’, in the International symposium at Nazarbayev University, Nur-Sultan, Kazakhstan on 23rd June 2019.

‘Perspective of Environmental History’, at the Department of History, Jammu University, 19th December 2019.

‘Tracking the Mers: An Insight in their History and Culture’, in the National Seminar, at Natnagar Sodh Sansthan, on 22 February 2019.

‘The Rise of Rajput States in Medieval Rajasthan’, at Zakir Hussain Delhi College (Evening), 4th March 2019.

Deshpande, Anirudh

‘Identity, Conflict and Cooperation in Pre-Colonial India: Debated Representations of the Socio-geographic Self and the Other’, in ‘Selected Marathi Texts of the 18th Century’, in the 23rd Biennial New Zealand Asian Studies Society International Conference, at Victoria University of Wellington, New Zealand on 24-27th November 2019

‘Is Military History Possible?’, History Society, at O P Jindal Global University, Sonapat, 1st April 2019.

‘The Prehistory of Fascism, Europe in the Nineteenth Century’, History Society, Hans Raj College, DU, on 3rd April 2019.

‘Gandhi, Nehru and Bose in Comparative Perspective’, History Society, at Motilal Nehru College (E), on 8th April 2019.

‘Interrogating Indian Nationalism, A Historical Perspective’, History Society, at Dyal Singh College, University of Delhi, on 11th April 2019.

‘New Ways of Doing History: Oral and Visual Histories since 1945’, in the Interdisciplinary Faculty Development Program on Emerging Trends in Research Methodology, at Mata Sundari College for Women, University of Delhi, on 7 October 2019.

‘The Relevance of Mahatma Gandhi’s Views on Education in India Today in Historical Perspective’, History Department, at Aligarh Muslim University, Aligarh, on 12th October 2019.

‘The Nature of Maratha Polity in the 18th Century’, at Department of History, Swami Shradhdhananda College, University of Delhi, on 30th October 2019.

‘The Representation of Women in Cinema’, at Department of History, Swami Shraddhananda College, University of Delhi, on 6th November 2019.

‘Indian Military History – An Overview’, at National Defence College, Ministry of Defence, GOI, New Delhi, 14 January 2020.

‘The Life of Shivaji Maharaj’, Chatrapati Shivaji Mahotsav 2020, at Shri Chatrapati Shivaji Maharaj Memorial National Committee, Constitution Club, New Delhi, on 20th February 2020.

‘Deconstructing the Layered Memory of Chatrapati Shivaji Maharaj’ and ‘Remembering the Desh as a Marathi Speaker during the Panipat Years’, 2019-2020 in Appasaheb Memorial Lecture Series, at Shivaji University, Kolhapur, Maharashtra, 27 February 2020.

‘Military History: An Introduction’, Brahmanand Deshpande Memorial Lecture, at Savitribai Phule Pune University, Pune, 9 March 2020.

‘The Theories of Fascism’, at Department of History, Savitribai Phule Pune University, Pune, 9 March 2020.

Farooqui, Amar

Valedictory Address, South Asian History Conference, Seventh Session: Trade, Trade Routes, and Travel in South Asia, Punjab University, Patiala, November 2019.

Govind, Rahul

‘Between the Jewish Question and the Global Question: Kant, Hume and Characterizing the Moral and the Legal in the 18th Century’, in Philosophy and the Public Sphere Lecture Series, at Smith College, Northampton, Massachusetts, USA, on 18th April 2019

‘Universal History: Subject and Event’, in the International conference on ‘Universal and Particular: Contemporary Perspectives on an Old Dispute’, at Centre for German Studies, Goethe Society of India, JNU, 14th November 2019.

Discussant, ‘Contested Spaces: The Making of Multiple Narratives in Ayodhya’, at Miranda House, Delhi University, 13 January 2020.

‘Political Dictation and Aesthetic Hieroglyphics: Schmitt, Benjamin and The Adventitious Roots of Aesthetic Authority’, in the National Seminar on Intersection of Verbal and Visual Arts at the Centre for German Studies, Jawaharlal Nehru University, 31 January 2020

‘Literature and History’, English Society, at Hansraj College, University of Delhi, 15 February 2019.

Gupta, Charu

‘Deconstructing Manhood: Histories, Performances and Possibilities’, Annual Literary Fest on ‘Interrogating Masculinities’, at Gargi College, University of Delhi, 27 February 2020.

‘Fantasy, Fitness, Freedom: Muscular Nationalism and Vernacular Travelogues in Colonial India’, paper in ‘80th Session of the Indian History Congress’, at Kannur University, Kerala, 28-30 December 2019.

‘Gender and Modern Indian Historiographies’, at Jesus and Mary College, University of Delhi, 21st August 2019.

‘Interrogating Gender: Literature, Law and Society in India’, at Shyama Prasad Mukherji College (for Women), University of Delhi, 9-10 August 2019.

Presented a paper titled ‘Love Taboos: Hindus, Muslims and Proscribed Intimacies’, in panel discussion on ‘Caste, Gender, and Citizenship in Contemporary India’, South Asia Center, University of Washington, Seattle, USA, 9th January 2020.

‘Reframing Gender in the Historiography of Modern India’, at Kamla Nehru College, University of Delhi, 8th November 2019.

Invited paper titled ‘*Swadeshi, Khadi* and Women’s Clothing in Modern India’, in the Conference on ‘Binaries and Beyond: Gender Discourses in the Long Eighteenth Century’, at Department of English, Jamia Milia Islamia and India International Society for Eighteenth-Century Studies (IISECS), Jamia Milia Islamia, Delhi, 26 February 2020.

‘Talking Gender’, at Rajdhani College, University of Delhi, 28 January 2020.

Presented a paper titled ‘Teaching Gender-Caste in India: Perils and Pleasures’, as a panel on ‘Teaching Caste’, at South Asian Literary Association (SALA) 2020 Annual Conference, at Seattle, USA, 7-9 January 2020.

‘Vernacular Sexologies: Santram BA and Translations of the Erotic’, at SOAS South Asia Institute, University of London, 1 May 2019.

‘Vernacular Sexology from the Margins’, at Department of History Seminar Series, University of Delhi, 23rd October 2019.

‘Women, Gender, Sexuality: Reframing Historiographies of Colonial India’, in the Conference on Women in India: Reconstructing Women’s History, Aligarh Historians Society, at Kannur, Kerala, 29th December 2019.

Chaired a panel on ‘Dalit Literature’, in Ireland India Institute Conference on South Asia, at Dublin City University, Dublin, 24-26 April 2019.

Chaired of a panel on ‘Labours of Love’, in Ireland India Institute Conference on South Asia, at Dublin City University, Dublin, 24-26 April 2019.

Invited to speak on ‘Gender and Literature’, in National Seminar on Interrogating Gender: Literature, Law and Society in India’, at Shyama Prasad Mukherji College (for Women), University of Delhi, 9-10 August 2019.

Invited to speak on, ‘Marginalisation Across Cultures: Dalit Women in India and Traveller Women in Ireland’, at Ireland India Institute Seminar, Dublin City University, Dublin, 24th April 2019

Presentation and participation in ‘Critical Caste Studies: A Roundtable’, Modern Language Association (MLA) 2020 Convention, at Seattle, USA, 9-12 January 2020.

Presented a paper titled ‘Fantasy, Fitness, Freedom: Muscular Nationalism and Vernacular Travelogues in Colonial India’, in ‘80th Session of the Indian History Congress’, at Kannur University, Kerala, 28-30 December 2019.

Presented at paper titled 'Fantasy, Fitness, Freedom: Muscular Nationalism and Vernacular Travelogues in Colonial India', in the '80th Session of the Indian History Congress', at Kannur University, Kerala, 28-30 December 2019.

Delivered keynote address titled 'Romance and Religion: Illicit Intimacies in Modern India', Ireland India Institute Conference on South Asia, Dublin City University, 24 April 2019.

Delivered keynote address, 'Gender and Historiography of Social Reform Movements', Chattisgarh Itihas Parishad Conference, Durg, Chattisgarh, 28 February 2020

Gupta, Vikas

Addressed as chair on 'Juxtaposing the Historiographical Framework of National Education with the Educational Discourse of the Freedom Struggle', in Archeology, History and Culture Research Committee, the 43rd Indian Social Science Congress, Chairperson's Address, Archeology, History and Culture Research Committee, Bengaluru Central University, 17-21 January 2020.

Delivered a Plenary Lecture titled 'Zaka Ullah: A 19th Century Endeavor for Establishing Rapprochement in Language and Knowledge', in the 43rd Indian Social Science Congress, Bengaluru Central University, 17-21 January 2020.

Hasan, Farhat

'Gender in the World view of Mughal Theologians: Perceptions of Manliness in the Works of *Badaoni* and *Shah Waliullah*', Conference on Women in India: Reconstructing Women's History, Aligarh Historians Society, Kannur, Kerala, 29 December.

Delivered presidential address at Medieval India Section titled 'Social Change and Imperial Sovereignty in Micro-Spaces: Exploring the Mughal State Formation from Below', at the 80th Session of the Indian History Congress, Kannur University, Kerala, 28-30 December.

Jain, Shalin

Discussant in '*Jain Prabandha* Literature', in *Jain Studies* Summer School Workshop, at Centre for South Asian Civilizations, University of Toronto, Mississauga, Canada, 1st August 2019.

'Networks of Knowledge: *Jain* Intellectual Tradition in Early Modern South Asia', in the International Conference on 'Forms of Knowledge and Intellectual Traditions in South Asia', at Nehru Memorial Museum & Library, New Delhi, 10-11 July 2019.

'Teaching Connected History', Second National Workshop, History in the Classroom: Challenges, Innovations and Pedagogical Issues in Undergraduate History Education, at Bharati College, University of Delhi, 31st October 2019.

'*Jains* and Interfaith Dialogues in Early Modern South Asia', in the National Conference on Interfaith Dialogue, Communal Harmony and National Integration, at School of National Security Studies, School of International Studies and School of Language, Literature and Culture Studies, Central University of Gujarat, 5-6 November 2019

'Recent Trends in Historiography of Early Modern South Asia', at Dyal Singh College, University of Delhi, 25th January 2020.

‘Early Modern Encounters: A Historiographical Perspective’, at Hansraj College, University of Delhi, 25th February 2020.

‘Identity, Community and Historiography: Jains in Early Modern South Asia’, in the National Seminar on ‘Jain Philosophy and its Relevance’, at SKSD Jain Academy Educational & Research Centre, Faculty of Arts, The Maharaja Sayajirao University of Baroda, 11th March 2020.

Delivered keynote Address, ‘Writing History: The Jain Literary Production in Early Modern South Asia’, Jain Studies Summer Institute, ‘Reading the Jain Prabandhas, Writing the History of Islamicate South Asia’, Centre for South Asian Civilizations, University of Toronto, Mississauga, Canada, 31 July 2019.

Kumar, Sajjan

‘*Harappan site Rakhigarhi: New Perspective*’, at Ch. Bansi Lal Govt. College, Loharu, Haryana, 7th March, 2020.

‘Scope of History for Completion of Graduation or Post Graduation’, at Ch. Bansi Lal Govt. College, Loharu, Haryana, 7th March, 2020.

Kumar, Sunil

‘What it Meant to be a Turk in the 13th and 14th Century Delhi Sultanate’, in the Conference on India and Turkey: Continuing Debates, at Ambedkar University, 3 April, 2019.

‘Analysing Sultanate Cities Diachronically: Muslim Society in Delhi, 13-14th Centuries’, Conference on Urban transformation and sustainable future, at Department of History, Ram Lal Anand College, University of Delhi, 23 September, 2019.

‘India’s Religious Traditions and the Middle Ages’, Workshop on Indian Religion: Exploring Conflict, Syncretism and Secularity, at Department of History, Jesus and Mary College, University of Delhi, 21 October, 2019.

‘Inaugural Lecture: Contexts, Pasts and a Modern World’, in the Second National Workshop, History in the Classroom: Challenges, Innovations and Pedagogical Issues in Undergraduate History Education, Bharati College, University of Delhi, 29 October, 2019.

Delivered keynote Address, ‘Reconstituting the Archive of *Hazrat-i Dehli*: The Sultans, the Sufis and the riverine plain of Delhi’, Conference on Recent Trends in Studying History, Department of History, Motilal Nehru College, University of Delhi, 7 November, 2019.

‘The Creation and Representation of Order: *Ghiyas al-Din Tughluq’s Tughluqabad*’, at History Department, Lady Shri Ram College, University of Delhi, 9th January, 2020.

‘The Creation and Representation of Order: *Ghiyas al-Din Tughluq’s Tughluqabad*’, at History Department, St. Stephens College, University of Delhi, 7th February, 2020.

‘Reconstituting the Archive of *Hazrat-i Dehli*: The Sultans, the Sufis and the riverine plain of Delhi’, 2020 K.M. Ashraf Memorial Lecture, History Department, Kirori Mal College, University of Delhi, 28th February, 2020.

Kumar, Surendra

‘Role of Literature in Empowerment of Marginalised Section with Reference to Text’, Annihilation of Caste Felicitation of Meritorious Students, AJAK, Churu, Rajasthan, 4 November, 2019.

‘Bhakti Movement and Space in Medieval Deccan from 12th to 17th Century: Historical Analysis’, CPDHE, University of Delhi, 11 November, 2019.

‘Constitution, Equality, Social Harmony for National Integrity: A Historical Analysis’, Conference on Constitution, Constitutionality and National Integration, Dr. Ambedkar International Centre, DAIC, 25th November, 2019.

Delivered a lecture Time and its Didactic Possibilities: Sijzi’s Fawa’id al-Fu’ad and the Fourteenth Century Chishtiyya’, at Hazrat Amir Khusrau Lecture, ‘Department of Persian, Delhi University, 15 January, 2020.

Misra, Sanghamitra

‘Historicising the “tribe” in North-eastern India and elsewhere, The Indigenous: North East India and its “Tribes”’, at Miranda House, 21st January, 2020.

Mohapatra, Prabhu Prasad

‘On Invisible Labour: Social Contract and Social Construct’, in the Workshop on ‘Re: Working Labor from a Transdisciplinary Perspective: Exploring Historical/ Contemporary Connections Between Labour History and Art’, at Chicago School of Art Institute, Chicago, 19-27 September, 2019.

Organised ‘Research Methodology Course on Methods in Historical Research on Labour’ and delivered lectures on ‘Labour History: A Global History Approach’ and ‘Understanding Labour through Regulations’, Association of Indian Labour Historians (AILH) & V.V Giri National Labour Institute (VVGNI), Noida, 2-6 September, 2019.

‘Transdisciplinary Approach to Labour Studies’, programme on Research Methods in Labour Market Analysis, VVGNI, Noida, 13th November 2019.

‘Informal Labour: A Global History’, in Perspectives on Labour Course, Faculty of Social Sciences and Humanities, IIT Madras, 14th February 2020.

Rai, Santosh Kumar

‘Skill as Education: Informal Child Labour and Formal Training Schools Twentieth Century Eastern Uttar Pradesh’, at the International Conference on ‘Forms of Knowledge and Intellectual Traditions in South Asia’, Nehru Memorial Museum & Library, New Delhi, on 10th July 2019.

‘Spinning *Khadi* and Organizing Education: Gandhian Skill Development in Colonial India’, National Discussion Meet on Relevance of Gandhian Educational Ideas: Implications for Policies and Practices, National Institute of Educational Planning and Administration (NIEPA), New Delhi on 4th October 2019.

‘Jallianwala Bagh Massacre and Indian Nationalism’, Mata Sundri College, University of Delhi, 23 October 2019.

Gandhi Hone ka *Artha*’, at the National Seminar: Ahimsa Ka Darshan aur Gandhi, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra, on 25th February 2020.

‘Dr. B.R. Ambedkar and the Vision of Civil Rights’, Ambedkar Memorial Lecture Committee (AMLC), Department of Social Work, University of Delhi, 28th February 2010.

‘Dr. B.R. Ambedkar and Struggles for Equal India’, The History Society, Kirori Mal College, University of Delhi, 28 February 2020.

Sahu, Bhairabi Prasad

Presented a paper titled 'Recent Archaeological Perspectives of Early Medieval India', at the National Symposium on Medieval Archaeology in India, CAS in History, at AMU, Aligarh, 25-26 August 2019.

'State Formation and the Frontiers: Autochthonous Communities, Ritual Practices and the Brahmanical Order in Early India', Ashoka University, Sonapat, 20th November 2019.

'The Changing Landscape of Early Medieval Indian History', in National seminar on Recent Trends in Social Science Research, at P. G. Government College, Chandigarh on 25th February 2020.

Shah, Shalini

'Engendering Female body: Sexuality and Desire in the *Sanskritic* tradition', at the Conference on Women in India: Reconstructing Women's History, Aligarh Historians Society, Kannur, Kerala, on 29th December 2019.

Singh, Vipul

'Climate Change and Society: Recent Historical Methodologies', in National Workshop on Climate Change, Department of Political Science, University of Delhi, on 24th February 2020.

'1864 Cyclone in Indian Ocean and Observation-Based Modeling of Catastrophe: A Historical Perspective', Environmental histories of the seasonality of natural disaster in Eastern Eurasia, 3rd World Congress of Environmental History, Universidade Federal de Santa Catarina, Florianópolis, Brazil, 26th July 2019.

Jafri, Sayyid Z.H.

Presided in technical session of the conference 'Trade, Trade Routes and Travels in South Asia', in the 7th South Asian History Congress, at Department of History Punjab University, Patiala, 22-23 November 2019.

'Contestations, Appropriations and Memories: The *Buddhist* Heritage and the *Mahabodhi* Shrine', National Conference on Historical Perspectives on Early Buddhism, Sanchi University of Buddhist-Indic Studies, 26-27 November 2019.

'Marginalization, Exclusion and Deprivation: "*Indo-Islamic*" Centres of Learning and the Colonial State', in the 80th Indian History Congress, Kannur, 28-30 December 2019.

Delivered keynote address, 'Beyond the Chronicles: 'Recovering' Institutional histories in 'Persianate World' during the 17th Century', in the International Seminar on Revisiting Persian Literature during AD 17th Century, at Institute of Persian Research, Aligarh Muslim University, 19-21 February 2020.

'Indo-Islamic Learning and the Colonial State: Bengal Presidency under East India Company', at Department of History, Faculty of Social Sciences, Maulana Azad National Urdu University, Gachibawli, Hyderabad, 4th March 2020.

Tyagi Jaya

'Women's Inclusion and Exclusion: Women's Representation and Leadership', at Shaheed Bhagat Singh (Evening) College, University of Delhi, on 17th February 2020.

'Complexities in Retrieving Women's 'Agency' from Conceptualizations in Early Indian Textual Traditions', in the International Conference, Gender and Freedom, at Department of Philosophy and Miranda House, University of Delhi, on 21st February 2020.

Interdisciplinary Faculty Workshop on 'Women's Studies in Universities: The Way Forward', 6th March 2020.

Number of PhDs Viva Voce Successfully Defended:

15 (Fifteen) students defended their thesis

Number of M.Phil Viva Voce Successfully Defended:

Total Number: 16 (Sixteen)

Other Activities/Achievements:

- 3rd February 2020: Gender Sensitization: Workshop and Discussion with South Campus History Department students. Conducted by Dr. Charu Gupta, Prof. Sunil Kumar, and Prof. Jaya Tyagi.
- Meeting with Ambassador of Guatemala and Prof. Alejandro Garay. 10th February, 2020.
- Department Library Acquisitions: Book acquisitions worth Rs 2,00,000 from CAS budget for 2019-2020 completed and submitted to University, 1st March, 2020.
- Utilizing 6 lakh UGC grant: Selection and Bidding on GEM Portal completed by Department Purchase Committee, 15 March 2020.
- 19th March 2020 onwards: Zoom Classes: Held regularly in all PG Courses. MPhil and PhD mentoring.

DEPARTMENT OF POLITICAL SCIENCE

Major Activities and Achievements

The Department was established in 1952, with about 40 postgraduate students. Since then the combined strength of students has exceeded to around 1000. The teaching and research program of the Department is based on a comprehensive social science approach that integrates and interrogates sociological, economic, philosophical and cultural dimensions. It encourages a comprehensive study of the field of politics, keeping especially the Indian realities in focus.

The Department of Political Science has been attempting to de-center the notions and practices of the political from its conventional moorings in Eurocentric thought and history. While engaged in moving away in its research agenda from dominantly European models for some time now, the Department has also insisted on learning and undertaking research on western thought and institutions as well, so that the mutual-imbrication of Europe and the non-West, especially India, may be studied more seriously. The relationships of exchange as well as asymmetry between the West and the non-West is of course critical to understanding the current thrust area of our Department, namely that of democracy, norms and institutions. The need for research on this area is intensified by a number of important global challenges that require more democratic initiatives than are currently available; and these have to be thought in terms of both national and extra-national institutions. Work on the thrust area also benefits from the critical investigations that we conduct in Indian Politics that reveal both new and old forms of (among other things) inequality, justice, discrimination and institutional processes in the larger context of the global.

Our general focus has been supplemented by a growing emphasis on the need to combine theory with ethnographic and archival work. We believe that it is necessary to acquaint ourselves with both Western

Political Theory and Indian Political Thought in order to address and open out new empirical material to fresh questions. We are convinced that this will illuminate the unfolding reality of India and other countries\regions and also open out new research agendas for other institutions outside in and India. The Department is extremely rich in academic potential, comprising a faculty known widely for their research and teaching abilities. It has entered into a number of collaborations with international institutions and its reputation is being rapidly consolidated within and outside the country.

Major Activities

- The Department hosted nine national seminars, nine UGC-CAS-SAP national seminars, one UGC-CAS-SAP national workshop, seven departmental weekly seminars, one visiting-fellow lecture, one movie screening and two book discussions.
- Vigilance Awareness Week was observed from 28 October to 2 November 2019. Pledge taking ceremony and quiz was organized.
- Pledge Taking Ceremony on Rashtriya Ekta Diwas (National Unity Day) was organised by the Department of Political Science on 31 October 2019.
- Constitution Day was celebrated on 26 November 2019.
- Jan Aushadhi Diwas and International Women's Day was celebrated on 7 March 2020.
- The Department hosted a number of seminars and conferences organized by the research groups and networks that it had launched in collaboration with college teachers to carry out research in emerging areas.
- Faculty members have received honours and awards at national level and have undertaken international assignments and conferred with professional positions at international associations/bodies in their area of specializations.

Number of PhD Degree's Awarded in 2019-2020:

15 (Fifteen)

Number of M. Phil. Degree Awarded in 2019-2020: 19 (Nineteen)

5. Research Schemes/Other Projects

S.No.	Title/Description	Principal Investigator	Sponsoring Organization
1.	2019, Country Expert and Assessor for India, Bertelsmann Transformation Index 2020.	Prof. Ujjwal Kumar Singh	Bertelsmann Stiftung, Germany
2.	A Study of ICDS in Gujarat, Field Work under UGC CAS-SAP Program, Jan-Feb 2020. (Report submitted).	Prof. Rekha Saxena	UGC

6. Programmes taken up involving Inter-Institutional Collaboration

Serial No.	Title	Principal Investigator	Sponsoring Agency
1.	2019, Country Expert and Assessor for India, Bertelsmann Transformation Index 2020.	Prof. Ujjwal Kumar Singh	Bertelsmann Stiftung, Germany

7. Additions to the faculty (PERMANENT APPOINTMENTS ONLY): NIL

1. Appointments of Faculty Members to Higher Posts/Assignments Outside the Institution: NIL

2. Honor's /Distinctions Received by Faculty Members at the International/National Level & Extension /Outreach Activities

Prof. Ashok Acharya

- Country Expert, Varieties of Democracy (V-Dem) Project, University of Gothenburg, 2019-20.
- Honorary Member, Advisory Board, Department of Political Science, Sharda University

Dr. Nasreen Chowdhary

- Vice President (2016-2018) and (2018-2021) International Association for the Study of Forced Migration.
- Vice President (2018-2021) Mahanirban Calcutta Research Group, Kolkata.
- Editorial Board Member (2016-Continuing), Refugee Watch -A South Asian Journal on Forced Migration.

Prof. Navnita C. Behera

- *Vice-President*, International Studies Association (2019-2020)
- Pitt Global Visiting Scholar (Offered in 2020; On hold due to the pandemic), 2020.
- ICCR Chair in Indian Studies at University of Pittsburg, 2019-20 (Nominated)
- *Fulbright-Nehru Fellowship for Academic and Professional Excellence*, at Sigur Centre for Asian Studies, Elliott School of International Affairs, George Washington University, USA (2018-2019)
- *Member-Secretary (Founder)*, Delhi School of Transnational Affairs, University of Delhi, 2017-2019.

Prof. Ujjwal Kumar Singh

- 1 June 2019 to 26 June 2019: Visiting Professor at the Institute of Political Science and Sociology, University of Wuerzburg, Germany.

Prof. Sunil K Choudhary

- Conducted Delhi Assembly Survey for all 70 constituencies by collecting samples of more than one lakh.

Prof. N. Sukumar

Visiting Faculty

- Indian Institute of Dalit Studies (ICSSR Affiliated Institute) Delhi. 2017 till date

Prof. Rekha Saxena

- Convener of National Seminar organized by the Department of Political Science, Delhi University in collaboration with Centre for Multilevel Federalism on The Status of Cooperative Federalism Under NDA II- THE IMPACT on Political Institutions under UGC CAS-SAP, 25 February 2020.
- Convener of UGC CAS-SAP National Seminar organized by the Department of Political Science, Delhi University on Appraisal of Policies of BJP-LED NDA Government, 27 February 2020.
- Convener of a workshop and colloquium under UGC CAS-SAP on Researching and Documenting Vulnerable Communities: Addressing the Gaps in Knowledge and Praxis in collaboration with CAALAS, 29 February 2020.

Prof. Shri Prakash Singh

Administrative and Other Academic Experience

- UGC Nominee for Academic Advisory Committee in Human Resource Development Centre. Pandit Ravi Shankar Shukla University, Raipur, Chhattisgarh, 2020 -2023
- UGC Nominee for Academic Advisory Committee in Human Resource Development Centre. Aligarh Muslim University, Date of appointment Nov. 2019 – 2022
- Member, UGC constituted Appraisal Committee to evaluate Epoch Making Social Thinkers of India, April - 2020 till date.
- Member, Governing Body, Satyawati College, University of Delhi (University representative) Delhi 110007 (2020-2021)
- Member, Advisory Board, Department of Public Administration, Mizo Central University, Mizoram(2019-2021)
- Member, Executive Council, UGC Chairman nominee, Dr. Hari Singh Gaur Central University, Sagar, M.P. (2019-2021)
- Member, Anomalies Committee on UGC regulations on Minimum Qualifications for Appointment of Teachers and other Academic staff in Universities and Colleges and Measures for the Maintenance of Standard in Higher Education, University Grants Commission , Ministry of Human Resource Development, Government of India, New Delhi,
- Chancellor's Nominee, Member Executive Council, Rabindranath Tagore University, Hojal (Assam) 20 Nov.2019- 19 Nov. 2022
- Visitor's Nominee on the Selection Committee for appointment of Faculties and Statutory posts in Central University of Jammu, Government of India, Ministry of Human Resource Development, New Delhi
- Member, (VC, JNU, Nominee) Academic Council, LBSNAA, Mussoorie, Uttarakhand, (2017-2020)
- Member, Vice- Chancellor's Nomine on 'Special Centre for National Security Studies' JNU, New Delhi, (15/12/2018 - 15/12/2021)
- UGC Nominee for Academic Advisory Committee in Human Resource Development Centre. Aligarh Muslim University, Date of appointment Nov. 2019

- UGC Nominee, Local Programme and Management Committee (LPPMC) in Human Resource Development Centre, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP (2018-2020)
- Member, Content Review Committee, Museum of Prime Ministers of India, Nehru Memorial Museum & Library, Ministry of Culture, Government of India, New Delhi
- Member, Editorial Board, *Lok Prashasan*, Half Yearly Journal, Published by Indian Institute of Public Administration, New Delhi (March 2018 – till date)
- Academic Advisor, Member Academic Consultant Committee, Museum of Prime Ministers of India, Nehru Memorial Museum & Library, Ministry of Culture , Government of India, New Delhi(2018-2019)
- Member, Committee, UGC regulations on Minimum Qualifications for Appointment of Teachers and other Academic staff in Universities and Colleges and Measures for the Maintenance of Standard in Higher Education, University Grants Commission , Ministry of Human Resource Development, Government of India, New Delhi (Report Submitted)
- Member, Academic Council, Jawaharlal Nehru University (VC Nominee) New Delhi, (May 2018-May2020)
- Member, Special Centre for Disaster Research , Jawaharlal Nehru University(JNU) New Delhi,(May 2018-2019)
- Member, Experts Committee / Selection Committee, Indian Council for Cultural Relations, Azad Bhawan I P Estate, New Delhi
- Member, Academic Audit Committee of MHRD (Govt. of India) to Audit Central Universities. Govt. of India.(Report Submitted)
- Member , Fact finding Committee, Amareshwar Degree College, Aurad, Bidar, Karnataka, University Grants Commission ,(South Western Regional Office) Bengaluru. (Report Submitted)
- Member, Department Advisory Board, Department of Education in Social Sciences, NCERT, New Delhi (Nov. 2017-Nov. 2020)
- Member, Special Fact-Finding Committee for Allahabad University, Ministry of Human Resource Development, Government of India. New Delhi (Report Submitted)
- Member, NAAC, Peer Review Committee, UGC, New Delhi.
- Chairman, Governing Body, (University Representative) Zakir Husain Delhi College, (Morning & Evening College) University of Delhi, Jawaharlal Nehru Marg, New Delhi (2017-2019).
- Member, Governing Body, Daulat Ram College (University representative) University of \Delhi, Delhi 110007(Jan.2019- Jan.2020)
- Member, Advisory Committee, JNIAS, Jawaharlal Nehru University JNU, New Delhi.

Expert and Consultancy

- Member, Research Advisory Committee, Ministry of Social Justice & Empowerment, Govt. of India, New Delhi, May 2016-2019.

- Member, Committee to Review the Working of Dr. Ambedkar Chairs, Dr. Ambedkar Foundation, Ministry of Social Justice & Empowerment, Govt. of India, New Delhi.2016-2019

3. (a) Seminars/Conferences at the National/International Level Held by Your Department during the Year

1. Visiting Fellows visiting Department of Political Science, University of Delhi from 1st April 2019 to 31st March 2020.

Serial No.	Name of Visiting Fellow	University/Institution	Topic	Date
1.	Prof. Akhil Ranjan Datta,	Gauhati University, Assam.	Interaction with faculty members and Research Student	March 1-7, 2020
2.	Prof. Harsh Pant	King's College, London	Interaction with faculty members and Research Student	January 20-26, 2020
3.	Prof. L. S. Gassah	Synod College, Shillong	Understanding the Relationship between Traditional Bodies and the Constitution: The case of Meghalaya	5 February 2020
4.	Dr. Niranjan Sahoo	Senior Fellow, Observer Research Foundation, New Delhi	How Polarisation is Crippling India's Democracy?	20 February 2020
5.	Prof. G. Gopa Kumar	Vice Chancellor, Central University of Kerala	Interaction with faculty members and Research Student	February 17-22, 2020
6.	Prof. Kedilezo Kikhi	Chair Professor, Dr B R Ambedkar Chair, Tezpur University, Assam	Interaction with faculty members and Research Student	February 24-29, 2020

11. (b) Weekly Seminar

S. No	Name of Speaker	University /Institution	Topic	Date
1.	Prof. L.S. Gassah	Professor of Political Science (retd.), North Eastern Hill University, Shillong	Understanding the Relationship between Traditional Bodies and the Constitution: The case of Meghalaya	5 February 2020
2.	Vipul Mudgal Reeva Soos Priyanka Singh, Preyansi Mani Moutushi Mukherjee	Common Cause India INDCARE Trust Interglobe Foundation School for Dignity Oxford University Press	Career Connect: exploring different avenues	19February2020
3.	Navina Jafa, Ved Arya, Pramathesh Ambasta, Chirag Thakkar and Niti Deoliya.	Department of Political Science, University of Delhi	CareerConnect: Exploring Different Avenues	15 January 2020

4.	Interactive Session by MITSOG Pune	Interactive Session by MITSOG Pune	Career Connect: Exploring Different Avenues, , on “Emerging Career Opportunities in Politics and Government	29 January 2020
5.	Rajesh Tandon	PRIA	Career Connect: Exploring Different Avenues, Talk on “Knowledge Democracy: Politics of Inclusion and Voice”.	29 January 2020
6.	Pritam Singh,	Visiting Scholar, Wolfson College, University of Oxford	“Sustainability implications of the spatial shift in global capitalism: An ecosocialist perspective”	6 November 2019
7.	Prof. Mahesh Rangarajan	Professor of History and Environmental Studies, Ashoka University	“Nature's Crossroads: Democracy as if Ecology mattered”	18 September 2019

Seminars and Conferences conducted by Department of Political Science, University of Delhi.

National

- *Talk* By Shri Sapan Joshi On “Jal, Thal, Mal”, 3 April 2019.
- *Seminar* On “Gandhi: Ethics and Politics in the 21 Century” By Prof. Douglas Allen (University of Maine) Organized by Comparative Political Theory Research Group, Department of Political Science & Centre for Ethics, Politics and Global Affairs, 10 April 2019.
- Book Release *Discourse on Rights in India: Debates and Dilemmas*, Routledge, India. Jointly edited by Dr. Bijayalaxmi Nanda and Dr. Nupur Ray. Released by the Former President of India Shri Pranab Mukherjee, 27th July 2019.
- Book Discussion “Caste Matters” Author: Suraj Yengde (Post-Doctoral Fellow, Harvard Kennedy School) in conversation with Prof. N. Sukumar, Professor, Department of Political Science, 5 August 2019.
- Movie Screening “Landless” by Randeep Maddoke, 7 August 2019.
- Talk on "Conjuring hope out of leftist melancholy: Thinking through recent scholarship on neoliberalism and the legacy of socialism" by Dr Viren Murthy, University of Wisconsin at Madison, 16 August 2019.
- Talk on “Gender Sensitization and Caste Discrimination” by Ms. Punam Kaushik, Lawyer and General Secretary, Pragatisheel Mahila Sangathan, Delhi, 24 September 2019.
- Special Lecture by Prof. Maxim S. Grigoryev, Member of the Civic Chamber of the Russian Federation & President, Foundation for the Study of Democracy. On “The White Helmets Organization: Terrorist Accomplices & a Source of Disinformation”, 8 November 2019.
- Talk by Dr. Zafarul-Islam Khan On “The Five Schools (Fiqh) of Islamic Theology”, 21 November 2019.

- Lecture on “How Polarisation is Crippling India’s Democracy?” By Dr Niranjana Sahoo, Senior Fellow, Observer Research Foundation, 20 February 2020.
- UGC CAS-SAP National Seminar “Mapping the Contours of Indian Political Thought”, 20 February 2020.
- UGC CAS-SAP National Seminar “Ethics and Climate Change: Challenges and Prospects”, 24th February 2020.
- UGC CAS-SAP National Seminar “Climate Change: A Social Perspective”, 24th February 2020.
- UGC CAS/SAP Seminar “Leveraging Technological Leadership for Soft Power: What India can Learn from Others”, 25 February 2020.
- UGC CAS/SAP National Seminar “The Status of Cooperative Federalism under NDA II: The Impact on Political Institutions” Organised in collaboration with Centre for Multilevel Federalism, 25 February 2020.
- UGC CAS/SAP National Conference “Politics, Policies and Processes”, 26 February 2020.
- UGC CAS-SAP National Seminar “Political Theory and Normative Reflections: Addressing Challenges of Our Times” Organised in collaboration with Centre for Ethics, Politics and Global Affairs, 26 February 2020.
- UGC CAS - SAP National Seminar “Appraisal of Policies of BJP led NDA Government”, 27 February 2020.
- UGC CAS-SAP National Seminar “India’s Neighbourhood Policy: Issues and Challenges”, 28 February 2020.
- Talk on “Kabir: Revisiting 'Bodies of Song'” by Prof. Linda Hess, Stanford University, 28 February 2020.
- Seminar on Jan Aushadhi Diwas and International Women's Day, 7 March 2020.

Workshop

- UGC CAS - SAP Workshop and Colloquium “Researching and Documenting Vulnerable Communities: Addressing the Gaps in Knowledge and Praxis”, 29 February 2020.

Participation of Faculty: Paper Presentation & Lectures Delivered

Prof. Veena Kukreja

Chaired a session in UGC CAS-SAP National Seminar on ‘Ethics and Climate Change: Challenges and Prospects’ held on 24 February, 2020 at Department of Political Science, University of Delhi.

Chaired a session in UGC CAS-SAP National Seminar on ‘Political Theory and Normative Reflections: Addressing Challenges of Our Time’ held on 26 February, 2020 at Satyakam Bhawan, Department of Political Science, University of Delhi.

A keynote speaker in UGC CAS-SAP National Seminar on ‘Politics, Policies and Processes’ held on 26 February, 2020 at South Campus, Department of Political Science, University of Delhi.

Prof. Ashok Acharya

Inaugural Lecture, 'Rekindling the Bandung Spirit: Transnational Justice and the Global South' in the Annual Convention Go South 2019 'Rethinking International Relations in the Era of Technological Disruption', 5-6 November, 2019, Institute of International Studies, Universitas Gadjah Mada, Indonesia.

Dr. Nasreen Chowdhary

The ethics of sanctuary: the practice of refugee management in India. Postcoloniality and Forced Migration-Conference, December 11-13, 2019 in Global Refugee Studies, Aalborg University Copenhagen, Denmark

Panel on "Ethnicity, national identity and representation of Rohingya: a regional perspective" and paper on *Contextualising Citizenship of the Rohingya* at AAS-in-Asia, Bangkok, on July 2, 2019.

Prof. Navnita C. Behera

Delivered lecture on "Teaching IR in the Global South," at the University of Fairbanks, Alaska on 25 April 2019. This was also part of a week-long visit as part of the Fulbright's Outreach lecturing program for Fulbright fellows. Also, participated in a research seminar on "Inclusive Education Policy From a Critical Perspective."

Delivered the Visiting Fellows Seminar on "Critical Pedagogy in International Relations: The Missing Leg," at the Sigur Centre for Asian Studies, George Washington University on 10 July 2019.

Delivered a talk on "If the Streets Could Talk! Unravelling the Kashmir Conflict," at the Hudson Institute, Washington DC on 15 July 2019.

Panelist for a conference on "Kashmir After 370," Organized by Observer Research Foundation, New Delhi, 19 November 2019.

Prof. N. Sukumar

'To be Affected by the Poor', Social Justice And Ecology Secretariat (SJES), 50 Years of Justice and Reconciliation: An Anniversary for Justice, New Delhi, 26-27 September 2019.

Chaired a Session, Inaugural Session, "Appraisal of Policies of BJP Led NDA Government, UGC-SAP National Seminar, Dept of Political Science, 27th Feb 2020.

Chaired a Session, Gandhi and Ambedkar, JTA Multidisciplinary International Conference, Jamia Millia Islamia, Delhi, Feb 18th 2020.

Special Lecture, Science and Society, National Institute of Technology, Itanagar, 31st Jan 2020.

Chaired a Session, Gandhi and Religion, International Conference on Mapping the Global Legacy of the Mahatma: Reflections on Politics, Religion and Culture, Zakir Hussain Delhi College, Delhi University, 25th Jan 2020.

Panel Discussant, Unpacking Reservations in India, Theory, Practice and Beyond, National Law School of India University, Bangalore, Dec 8th 2019.

Equity: Reflections on Caste, ICSSR Research Methodology Workshop, Dr. Ambedkar Chair, Tezpur University, 29th-30th November, 2019.

Keynote Address, Equalizing Access to Higher Education: Issues and Challenges in Contemporary India, Birsa Munda Birth Centenary Celebration Committee, Jadavpur University, Kolkata, Nov 15 2019.

Guest Speaker, Education and Marginal Groups, SWAERO 4th National Convention, Hyderabad, October 27th 2019.

Panel Discussant, "To be Affected by the Poor", Social Justice And Ecology Secretariat (SJES) 50 Years Of Justice And Reconciliation: An Anniversary For Justice, 26-27 September 2019, Navjivan Trust, Delhi.

Keynote Address, Knowledge Production and Academic Erasures: An Ambedkarite Perspective, Symposium on Marginal Studies in India: Ambedkar's Perspective, Daulat Ram College, Delhi University, 17th September, 2019.

Social Security and the Migrant Labour in Delhi: A Study of Timarpur, On the 72nd Anniversary of the Indian Constitution, Dept of Economics, Motilal Nehru College, University of Delhi, 16th September, 2019.

Special Lecture on Democracy and Constitution organized by Lawyers for Democracy, Tees Hazari Court, Delhi, 24th April 2019.

Chief Guest, Dr. B.R. Ambedkar Jayanthi Celebrations, "Relevance of Ambedka's ideas on Education' National Institute of Technology, Warangal, Telangana, 14th April 2019.

Public Lecture on 'Ambedkar's Democracy and its Relevance in Contemporary India', Organized by Telangana Jana Vedika, Warangal, 14th April 2019.

Panel Discussant, "Debating Caste and Community Violence", organized by History Society, St. Stephen's College, Delhi University, 5th April 2019.

Inaugural Lecture on Ambedkar's ideas on Democracy and Equality, Deshbandhu College, Delhi University, 5th April 2019.

"Social Exclusion and Poverty in India: A Policy Paradigm", Dept. of Public Policy and Administration, Central University of Jammu, 4th April 2019.

"Development Strategies and State Initiatives", Dept. of Political Science, Jammu University, 3rd April 2019 .

"BJP and the Politics of Pedagogy", Appraisal of Policies of BJP Led NDA Government", UGC-SAP National Seminar, Dept. of Political Science, 27th Feb 2020.

Prof. Rekha Saxena

Invited to an international conference organized by Jahangirnagar University, Dhaka, Bangladesh on Governance in the 21st Century in South Asia: Challenges and Ways Forward, 7-8 July 2019. Presented a paper on "Federal Governance in South Asia".

Invited as a Key Speaker and Presented a Paper on "Governance and Gender Parity: Prospects and Challenges" in a conference jointly organised by Jain University and the Konrad Adenauer Stiftung held on 8-9 February 2020 at Bengaluru.

Invited to Punjab University in a seminar in collaboration with LOKNITI and presented a paper on 2019 elections and Indian National Congress, February 2020.

Prof. Sanjeev Kumar HM

‘Agonies of Satyagraha in the age of Authoritarian Populism: The Islamophobic Discourse of Hindu Nationalism, and the making of the Illiberal Public Culture in India’, Colloquium on “Democracy and Satyagraha”, organized by The Creative Theory Colloquium, Raza Foundation and India International Centre, 5-6 September 2019.

‘Towards an Alternative Conceptualisation of Order, Anarchy and Justice: The Case for an Islamic Resolution of the Problematic of the International’, National seminar on "Towards a Just India: Challenges and Prospects", organised by the Department of Political Science, Aligarh Muslim University Aligarh, 3-4 September 2019.

‘From Neo-realist Structuralism to a Normative Non-Structuralism: Islam, Western International Relations and the Problematique of Ordering the International’, 13th pan European Conference on International Relations, on “A Century of Show and Tell: The Seen and the Unseen of IR”, organized by European International Studies Association and Sofia University Bulgaria, at Sofia Bulgaria, 11-14 September 2019.

‘Gandhi, Satyagraha and the Anarchy Problematique in International Relations’, International seminar on “Gandhi, Conflict Resolution and Peace: Emerging Dynamics in the Twenty-First Century”, organised by the Centre for Gandhian Thought and Peace, School of Social Science, Central University of Gujrat, Gandhinagar, 30 September to 2nd October 2019.

‘The USA & West Asia - Global Implications’, delivered in the Dept. of Political Science, Kirori Mal College, University of Delhi, 9 January 2020.

Lecture delivered in the pannel discussion entitled "The Changing Parameters of India Pakistan Relations: Post 26/11 Political and Strategic Diplomacy", organised by the Department of Political Science, Maitreyi College, University of Delhi, on the 24th of September 2019.

Lecture entitled "Globalisation, Theory and the Problematic of the International", in the faculty development programme organised by the Amity Institute of International Studies, Amity University, Noida held from 1 July to 7 July 2019, organised by the Amity Institute of Public Policy (AIPP), Amity University, Noida, Uttar Pradesh.

Delivered two lectures entitled 'Teaching Political Science: Text, Context or Theory?', and 'Reclaiming the Native: Pedagogical Challenges for Political Science Teachers in Postcolonial Societies"', in the Induction Training programme for Assistant Professors of Political Science, organized by the Higher Education Academy, Dharwad, Karnataka. (1 February 2020) (Resource Person)

Prof. Sunil K Choudhary

Lecture, ‘Social Science Research and Contemporary Challenges’, *Capacity Building Program*, ICSSR, New Delhi and Jai Narain Vyas University, Jodhpur, Rajasthan, 25 January 2020.

Lecture, ‘Searching the Real: Social Science Research in Contemporary Times’, *Research Methodology Workshop*, ICSSR, New Delhi and Burdwan University, West Bengal, 24 December 2019.

Popular Lecture, ‘Educating the Last Man: Gandhian Notion of F³’, *150th Birth Anniversary of Mahatma Gandhi*, National Science Centre, Delhi, 1 October 2019.

Talk, ‘Is Congress performing its duty of Opposition in defending Chidambaram?’ [in Hindi], *Jagaran Vimarsh, Dainik Jagaran*, Noida, Uttar Pradesh, 27 August 2019.

Lecture, ‘Samiksha: Delhi 2020’, *Assembly Election Survey Results*, Developing Countries Research Centre [drc], University of Delhi, 8 February 2020.

Lecture, 'Samiksha: Delhi 2020', *Delhi Assembly Election Workshop*, Developing Countries Research Centre [dcrc], University of Delhi, 31 January 2020.

Lecture, 'Social Science Research: The DIE Phenomenon', *Ph D Course Work*, Department of Political Science, Jai Narain Vyas University, Jodhpur, Rajasthan, 25 January 2020.

Lecture, 'Samiksha: Delhi Assembly Election, 2020', Developing Countries Research Centre [dcrc], University of Delhi, 24 January 2020.

Lecture, 'Changing Electoral Democracy in the Capital: The GDP Phenomenon', *Samiksha: Delhi 2020*, Developing Countries Research Centre [dcrc], University of Delhi, 14 January 2020.

Chair, 'Constitution and Election', *Interactive Discourse*, Developing Countries Research Centre [dcrc], University of Delhi, 3 May 2019.

Chair, 'Cyber Security: The New Art of War', *Talk*, Developing Countries Research Centre [dcrc], University of Delhi, 1 April 2019.

Lecture, 'India's Changing Electoral Democracy: C³ Phenomenon', Kamla Nehru College, University of Delhi, 17 February 2020.

Prof. Ujjwal Kumar Singh

Paper on the theme 'Is there a colour of terrorism? Law, state and right-wing extremism in India', presented at an interdisciplinary workshop on 'Understanding and Responding to Right-Wing Terrorism' organised by the Gilbert-Tobin Centre of Public Law and the Centre for Crime, Law and Justice, in the University of New South Wales, Sydney, Australia, 15-16 July 2019.

Valedictory Address delivered on 'Theorising Gandhian Politics' in International Conference organised by Gandhi Study Circle, Dyal Singh College Evening, University of Delhi, Delhi, February 2, 2020.

Lecture delivered on 'Indian Constitutionalism' on an invitation from Department of Political Science, Vivekanand College, University of Delhi, Delhi, January 24, 2020.

Lecture delivered on 'Constitutional Morality in India' on an invitation from Discussion Forum and Department of Political Science, Indraprastha College for Women, University of Delhi, Delhi, January 22, 2020.

Lecture delivered on 'Constitutionalism and Democratic Churning in India' at Central University of Gujarat, Ahmedabad, November 26, 2019.

Research Projects Undertaken by the Faculty

Prof. Ujjwal Kumar Singh

- Country Expert and Assessor for India, Bertelsmann Transformation Index 2020, 2019.

Prof. Rekha Saxena

- A Study of ICDS in Gujarat, Field Work under UGC CAS-SAP Program, Jan-Feb 2020. (Report submitted).

Publications (by the Faculty)

- Acharya, A. (2019). Constitutionalizing Rights, Negotiating Difference: The Indian Experiment, in Nanda, Bijayalaxmi and Ray, Nupur (Ed.), *Discourse on Rights in India: Debates and Dilemmas*, Delhi: Routledge.
- Behera, N.C. (2019). Studying IR in the Global South (Interview), *Vestnik RUDN, International Relations*, Vol.19, No.2, 2019, pp.302—305. <http://journals.rudn.ru/international-relations/article/view/21468/17113>
- Behera, N.C. (2020). State and Sovereignty, in Tickner, Arlene B. and Smith, Karen (Ed.), *International Relations from the Global South: Worlds of Difference*, New York: Routledge.
- Choudhary, S. K. (2019). Citizen Policing, in Sangit Kumar Ragi (Ed.) *Governance and Citizenship*. New Delhi: National Book Trust, pp.61-66. ISBN: 978-81-237-8824-1.
- Choudhary, S. K. (2019). Civic Culture, in Sangit Kumar Ragi (Ed.) *Governance and Citizenship*. New Delhi: National Book Trust, pp.45-48. ISBN: 978-81-237-8824-1.
- Choudhary, S. K. (2019). Expanding Politics, Extending Democracy, *GlobaLense: A Journal of Social Science Research*, Developing Countries Research Centre [drcr], University of Delhi, Vol.2, No.1, January-June, pp.1-15.
- Choudhary, S. K. (2019). Participatory Citizenship, in Sangit Kumar Ragi (Ed.) *Governance and Citizenship*. New Delhi: National Book Trust, pp.49-54. ISBN: 978-81-237-8824-1.
- Choudhary, S. K. (2019). Role of Civil Society, in Sangit Kumar Ragi (Ed.) *Governance and Citizenship*. New Delhi: National Book Trust, pp.67-74. ISBN: 978-81-237-8824-1.
- Choudhary, S. K. (2019). Social Audit, in Sangit Kumar Ragi (Ed.) *Governance and Citizenship*. New Delhi: National Book Trust, pp.55-60. ISBN: 978-81-237-8824-1.
- Choudhary, S. K. and Bhardwaj, R. (2020). India's Changing Electoral Landscape: Lensing Uttar Pradesh from an Assembly Perspective, *GlobaLense: A Journal of Social Science Research*, Developing Countries Research Centre [drcr], University of Delhi, Special Issue, Vol.1, No.1, pp.1-15.
- Chowdhory N., and Mohanty B. (2020). Within a Legal Vacuum, Is Repatriation a Way Forward? Some Theoretical Reflections. In Chowdhory, N. and Mohanty, B. (Ed.) *Citizenship, Nationalism and Refugeehood of Rohingyas in Southern Asia*, Singapore: Springer, https://doi.org/10.1007/978-981-15-2168-3_1 [Print ISBN978-981-15-2167-6; Online ISBN978-981-15-2168-3]
- Chowdhory, N. (2019). Citizenship and Membership: Placing Refugees in India. In: Uddin N., Chowdhory, N. (Ed.) *Deterritorialised Identity and Transborder Movement in South Asia*, Singapore: Springer. https://doi.org/10.1007/978-981-13-2778-0_3 [Print ISBN 978-981-13-2777-3; Online ISBN978-981-13-2778-0]
- Chowdhory, N. (2019). Conclusion: Transborder Mobility and the Challenges of the South Asian States, in Uddin N., Chowdhory N. (Ed.) *Deterritorialised Identity and Transborder Movement in South Asia*, Singapore: Springer. https://doi.org/10.1007/978-981-13-2778-0_3 [Print ISBN 978-981-13-2777-3; Online ISBN978-981-13-2778-0]
- Chowdhory, N., and Mohanty, B. (2020). Citizenship, Nationalism and Refugeehood of Rohingyas, in *Southern Asia*, Springer Nature Singapore Pte Ltd, [ISBN 978-981-15-2167-6 & 978-981-15-2168-3 (eBook)], <https://doi.org/10.1007/978-981-15-2168-3>

- Chowdhory, N., and Mohanty, B. (2020). Contextualizing Citizenship, Nationalism and Refugeehood of Rohingya: An Introduction. In Chowdhory, N. and Mohanty, B. (Ed.) *Citizenship, Nationalism and Refugeehood of Rohingyas in Southern Asia*, Singapore: Springer, https://doi.org/10.1007/978-981-15-2168-3_1 [Print ISBN978-981-15-2167-6; Online ISBN978-981-15-2168-3]
- Chowdhory, N., and Shamna, T.P. (2019). The Global Compact of Refugees: A Viewpoint of Global South, *Refugee Watch -A South Asia Journal on Forced Migration*, Mahanirban Calcutta Research Group, Kolkata, Volume 54, pp. 1-14.
- Chowdhory, N., and Thachampoyil, S. (2019). Transitional Justice, Reconciliation, and Reconstruction Process: The Case of Former LTTE Female Combatants in Postwar Sri Lanka, in N. Canefe (Ed.), *Transitional Justice and Forced Migration: Critical Perspectives from the Global South* (pp. 222-246). Cambridge: Cambridge University Press. doi:10.1017/9781108380072.011 [Online ISBN: 9781108380072; Hardback ISBN: 9781108422062]
- Chowdhory, N., Shamna, T P, and Kajla, M. (2019). The Idea of Protection: Norms and Practice of Refugee Management in India. *Refugee Watch -A South Asia Journal on Forced Migration*, Mahanirban Calcutta Research Group, Kolkata, Volume 53, pp. 36-54.
- Dev, R. (2020). Ambiguities of Belonging and the Citizenship Amendment Act 2019 in India's Northeast, *Asia Dialogue*, Nottingham, UK, February 25.
- Dev, R. (2020). Politics of Identity, Regionalism and the BJP: A Synoptic view from Northeast India, In Wallace, P. (Ed.), *India's 2019 Elections: The Hindutva Wave and Indian Nationalism*, Sage: New Delhi. https://doi.org/10.1007/978-981-15-2168-3_1 [Print ISBN978-981-15-2167-6; Online ISBN978-981-15-2168-3]
- Kajla M., and Chowdhory N. (2020). The Unmaking of Citizenship of Rohingyas in Myanmar. In Chowdhory, N. and Mohanty, B. (Ed.) *Citizenship, Nationalism and Refugeehood of Rohingyas in Southern Asia*, Singapore: Springer,
- Kukreja, V. (2020). Ethnic Diversity, Political Aspirations and State Response: A Case Study of Pakistan, *Indian Journal of Public Administration*, Vol. 66, No.1.
- Kukreja, V. (2020). India in the Emergent Multipolar World Order: Dynamics and Strategic Challenges, *India Quarterly*, Vol. 76, Issue. 1.
- Rekha, S., and Swenden, W. (2019). Environmental Competencies in India's Federal System, In Clecierska, N (Eds.) *Environmental Policy in India* (Routledge Studies in Environmental Policy), London and New York: Routledge.
- Singh, U.K. (2019). Law, State and Right-Wing Extremism in India, *Journal of Policing, Intelligence and Counter Terrorism*, Vol. 14, No. 3, pp. 280-297. ISSN: 1833-5330 (Print) 2159-5364 (Online)
- Singh, U.K. (2019). *The Election Commission of India: Institutionalising Democratic Uncertainties*, Oxford University Press, Delhi, 2019. [Co-authored]
- Singh, U.K. (2019). The Lack of a Legal Status for the Model Code of Conduct Leaves Room for Ambiguity, *The Wire*, 17 April (co-authored).
- Singh, U.K. (2020). AFSPA and Other Draconian Laws, In Nair, R.B. and deSouza, P.R. (Ed.), *Keywords for India: A Conceptual Lexicon for the 21st Century*, Bloomsbury Publications, London.

Sukumar, N. and Menon, S. (2019). BJP and the Politics of Polarization: Agenda for the 2019 Elections, <http://theasiadialogue.com/2019/03/20/bjp-and-the-politics-of-polarisation-agenda-for-the-2019-elections/> Online Magazine of the University of Nottingham, 20th March.

Sukumar, N., Lal, L. D and Mishra, V. K. (2019). Inclusiveness in the Panchayati Raj Institutions, *Journal of Social Inclusion Studies*, Volume: 5 Issue: 1, page(s): 72-88, Sage Publications, ISSN: 23944811.

Uddin, N., and Chowdhory, N., (2019). Deterritorialised Identity and Transborder Movement, in *South Asia*, Springer Nature Singapore Pte Ltd., [ISBN 978-981-13-2778-0 (e-book) &978-981-13-2777-3 (hardcover)], <https://doi.org/10.1007/978-981-13-2778-0>

DEPARTMENT OF SOCIAL WORK

1. Major Activities and Achievements

The Department of Social Work, University of Delhi continued its role, in the current academic year as a prominent flag bearer of Social Work education and practice in India. The Department of Social Work is a pioneering institute in Social Work Education imparting professional training since 1946. The Department offers education at three levels namely Ph.D., M. Phil. and M.A. in Social Work.

A UGC Centre for Advanced Study, the teaching, research and practice within the discipline of Social Work is carried out keeping the Social realities of India. The department has a diverse set of faculty members, who enrich the academic and corporate life in numerous ways. The Department of Social Work was acknowledged as one of the departments showing best practice in the innovative social outreach programmes of the University, in the NAACC report of the University of Delhi, 2019-20. The Department of Social Work continues to hold the second position amongst the Social Work Institutions in India in the ranking of Outlook magazine since 2009. For the last two years the Department has been ranked number one on 'Academic Excellence' and 'Placements' in the Outlook magazine ranking. The department aims to strengthen the discipline and profession of Social Work in India, through its emphasis on eclecticism, innovation in best practices and inclusiveness.

2. Honours/Distinctions-Single line space between two entries

- Ranked number two amongst the Schools of Social Work in India, by Outlook Survey for the seventh consecutive year
- Ranked number two institution of Social Work in India, by India Today

3. Publications-

Adusumalli, M. and Dutta, S. (2019). Preserving and protecting forests and forest dependent communities in India by implementing the Forest Rights Act of 2006. In M. Rinkel and M. Powers (Eds.), *Social work promoting community and environmental sustainability: A workbook for social work practitioners and educators* (Vol. 3). Rheinfelden, Switzerland: International Federation of Social Work (IFSW). (pp.315-341). ISBN 978-3-906820-20-0

Anand, M. and Adusumalli, M. (2019): Towards standardization of field work practicum: experiential reflections from Delhi, India, *Social Work Education*, DOI: 10.1080/02615479.2019.1680618

Anand, M. (2019). *Gender and Social Work Practice in India: The Changing Feminist Discourses*. Practice: Social Work in Action. University of Edinburgh, Rutledge. ISSN: 0950-3153

Anand, M. (2019). Human Rights Inquiry into Women's Reproductive and Sexual Health. *Educere: BCM Journal of Social Work*. Volume 15, No. 1, pp 16-36. Department of Social Work, BCM College, Kottayam. ISSN: 2249-1090 (Co-authored)

Anand, M. (2019). Combating Mental Illness: Psychosocial Realities. *Journal of Psycho Social Research* Volume 14, No. 2, pp 257-265. ISSN: 0973-5410

Anand, M. (2019). Indian Schools in Context: Gender Bias and Structures of Power). *Quest in Education*. Volume XXXXVIII, No.4, pp 20-27. Gandhi Shiksha Bhavan, Indian Council of Basic Education, Mumbai. ISSN: 0048-6434.

Anand, M. (2019). Women's Rights, Human Rights and the State: A Mental Health Perspective. *ISTM Journal of Training Research and Governance*. Volume 1, No.1, pp 12-20. Institute of Secretariat Training & Management. ISSN: 2581-8775

Anand, M. (2019). Gender Mainstreaming in Higher Education: Towards a Praxis (2019). In Sabiha Hussain and Shah Alam (Eds) 'Women and Higher Education: Reflections on Access and Equity' (pp 23-44). New Delhi: Serials Publications Private Limited. ISBN: 978-93-86611-72-7

Anand, M. (2019). Gender and School Education: Levelling the Playing Fields (2019). In G.C. Mishra and Daya Shankar Tiwary (Eds) 'International Conference on Women's Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women's Leadership: Issues and challenges in 21st Century (Naareevaad-2019) -Conference Proceedings' (pp 174-177). New Delhi: Krishi Sanskriti Publications. ISBN: 978-93-85822-95-7

Anand, M. (2019). Prepared Online Teaching Learning Material (TLM) for the UGC- Human Resource Development Centre, Jamia Millia Islamia as a part of their Annual Refresher Programme in Teaching (ARPIT – 2019) in Gender/ Women's Studies. TLM prepared on the topic: Globalisation and Impact of Economic Policy on Women (Major Approaches: WID, WAD/ GAD, UN/ ILO and Indian initiatives)

Behera, P. C. (2019) Dalits, Human Rights and Social Work Practice; In B M Dash, M Kumar, and S Shukla (Eds). *Social Work in India: Indigenous Approaches and Models*; New Delhi: Concept. (pp. 171-184). ISBN-13: 978-9388937498

Bhatt, S. (2019). *Journeys in Social Work Education in India: Emerging Reflections* by Murli Desai, R. R. Singh and Sanjai Bhatt, Rawat Publications, Jaipur, 2019

Bhatt, S. (2019). Remembering Life and work of Sharad Joshi, edited by Sanjai Bhatt, Ajay K Jha and Alok Vyas, CECEOEDCON and PAIRVI, New Delhi, 2019

Jha, M. K. (2019). "GA coming together due to shared perspectives, not intimidation" *Hindustan Times*, 3rd May, 2019

Jha, M.K. (2019). "History shows lack of debate is a symptom of majoritarianism" *The Indian Express*, 18th Sept, 2019

Jha, M.K. (2019). Chapter "The important roles of Rajya Sabha: Deliberating, Counselling and Balancing of Power in book "Role of Rajya Sabha in Indian Parliamentary Democracy" published by Rajya Sabha Secretariat, 2019.

Jha, Pushpanjali (2019). Book review: Laurence Cox and Alf Gunvald Nilsen, *We Make Our Own History: Marxism and Social Movements in the Twilight of Neoliberalism* and Alf Gunvald Nilsen, *Politics from Below: Essays on Subalternity and Resistance in India*; *Social Change*, Sage Publication, 49(1):176-179; eISSN: 09763538 | ISSN: 0049085.

Kaushik, A. (2019). Exclusion of rural poor of Odisha: A case of Malkangiri district, *Jharkhand Journal of Development and Management Studies*, XISS, Ranchi, Vol. 17, No.1, 2019, pp.7957- 7974

Kaushik, A. (2019). Book chapter: "Situational Analysis of Muslim Children in the Face of Islamophobia: Theoretical Frameworks, Experiences, and School Social Work Interventions" (co and corresponding author: Jannat Fatima Farooqui). In Anisah Bagasra (Kennesaw State University, USA) and Mitchell Mackinem (Wingate University, USA) edited book *Working with Muslim Clients in the Helping Professions*. IGI Global. ISBN: 9781799800187;

Kaushik, A. (2019). The Consequences of Husband's International Migration on Family Left-Behind in Tamil Nadu, India. *Journal of International Migration and Integration* (co and corresponding author Arokkiaraj Heller. Springer Nature B.V. 2019; published on 5th September 2019. <https://doi.org/10.1007/s12134-019-00705-9>;

Kaushik, A. (2019). Book chapter: "Orientation Programme to Fieldwork: Relevance and Modalities". In *Field work training in social work* edited by Bishnu Mohan Dash and Sanjoy Roy. 2020; ISBN: 0367276496

Kaushik, A. (2019). Effectiveness and challenges in counselling supervision (co-author: Beena Antony Reji). *Social Work Chronicle*. Volume 8, Issue 1, ISSN: 2277-1395

Kaushik, A. (2019). *Chasing Life Unlived: Under the Shadow of Death*, *Journal of Social Work & Social Development*, Vol.9, No. 1 & 2, ISSN: 2229-6468.

Khan, A. & Baharul Islam, K.M. (2019). Social Media Monitoring in India: A Circumstantial Analysis. In S. Chakraborty. *Handbook of Social Media for Digital and Social Inclusion*. Delhi: ABS Publications. ISBN: 978-93-86088-79-6. pp. 1-18.

Maske, S. (2019). The Maharashtra State Assembly Elections " *Loksahihila Bal Denara Janadesh*" Published by Sakal Newspaper on Published on 11th November 2019 <http://product.sakaalmedia.com/portal/SM.aspx?ID=197427>

Maske, S. (2019). "Remembering Babasaheb Ambedkar in the Shadow over Indian Democracy" on 63rd Death Anniversary (Mahaparinirvan Diwas of Dr. B. R. Ambedkar. Published on newsd.in on 6th December 2019. <https://newsd.in/rememering-babasaheb-ambedkar-in-the-shadow-over-indian-democracy/>

Pandey, N. (2019). Incompetency and Challenges of Police in Rape Cases, *Social Work Chronicle*, Vol.7, No.1, 52-71, ISSN 22771395. (Co-authored)

Kumar, H. & Pandey, N. (2019). Social Exclusion of Musahars in Uttar Pradesh: An Overview, *Journal of Social Exclusion*, Vol 9(1), 26-34, ISSN 2231-4547

Pandey, N. (2019). Folk Culture and Gender: Study of the Folk Culture of Eastern Uttar Pradesh, in book *Language, Identity and Contemporary Society*, (eds.) Rajesh Kumar & Om Prakash, 84-105, UK: Cambridge Scholars Publishing, ISBN 13: 978-1-5275-2033-2

- Dash, B & Roy, Sanjoy. (Ed.) (2019). 'Field Work Training in Social Work' Routledge, an imprint of the Taylor and Francis Group, UK., ISSN 9782367276492 (Paperback)/9781138575165 (Hardback.)
- Roy, Sanjoy. (2019). Climate Change and Human Health: A Realistic Outlook from Indian Perspective, International Journal of Ecology & Natural Resources, Medwin Publisher, 2019, p-1-8, Volume-3 Issue-1, USA. ISSN :2578-4994. IF :2.09.
- Roy, Sanjoy (2020). Prospects and Progress of Sanitation in India: Legal and Policy Perspectives. In (Ed). Nagendra Ambedkar Sole & S. Sudhakar Babu. Public Policy in India: Changing Contours, Segment Books Publication, New Delhi, ISBN- 978-93-81513-14-9, p-75-94.
- Roy, Sanjoy. (2020). Tagore's Sriniketan Experiment: A Viable Indigenous Model of Rural Development. In (Ed). B M Dash, Mithilesh Kumar & S Shukla. Social Work in India: Indigenous Approaches and Models, Concept Publishing Company Pvt. Ltd, New Delhi, ISBN-978-93-88937-49-8, p-30-40.
- Roy, S. (2019). Climate Change and Human Health: A Realistic Outlook from Indian Perspective, International Journal of Ecology & Natural Resources, Medwin Publisher, pp-1-8, Volume-3 Issue-1, USA.
- Sharma, S. (2019). Skill Building & Employment in India: Interrogating an Uneasy Relationship. The Indian Journal of Industrial Relations, 55(2), October 2019. ISSN 0019-5286.
- Shashi Rani, (2019), 'Dr. B R Ambedkar's Social Justice and Women Empowerment Approach', Published by Ministry of Social Welfare, SC & ST, Government of NCT, Delhi.
- Shashi Rani (2019), "Revisiting Phule and Ambedkar Approaches of Social Justice and its Relevance in Contemporary Social Work Practice", in Dash B. et al. (ed) Social Work In India , Indigenous Approaches and Models, Concept publishing Company Pvt Ltd New Delhi-110059. ISBN-9789388937498
- Shashi Rani (2019), "International Social Work Practice: Issues, Strategies and Programmes", In MSWE International Social Work: Concept, Standard and Regulatory Bodies, ISBN 978-93-88498-27-2, SOSW, pg 34-47, IGNOU.
- Shashi Rani (2019), Development with Inclusive Policy, YOJNA, September, Volume 63, ISSN-0971-8400, Published by Ministry of Information and Broadcasting, Government of India.
- Shashi Rani, (2019)," Health Care Interventions for Rural India", Kurukshetra, A Journal of Rural Development, Volume 67, Number 5, ISSN 0021-5660, March 2019, Ministry of Rural Development, Published by Ministry of I& B, Government of India.
- Singla, Pamela & Tulsyan Arpan (2020). 'Violence against Women' in Kamla Nath (Ed.). The Indian Women's Journey: Last Five Decades. New Delhi: Har Anand Publishers, ISBN 978-93-88409-58-2.
- Singla, Pamela (2019). 'Coordinating fieldwork: challenges and learning' in Roshni Nair, Srilatha Juvva and Vimla Nadkarni (Ed.). Field Work in Social Work Education: The Indian Experience (1st Edition, South Asia Edition). New Delhi: Routledge, ISBN 978-0-3674-6374-8 (hbk).
- Singla, Pamela (2019). 'Social Inclusion'. (Nov./ Dec 2019, Issue 21). Social Dialogue, International Association of Schools of Social Work publication, ISSN 2221-352X.
- Singla, Pamela (2019). 'Women's Welfare and Development: Challenges and Indigenous Practices' in Bishnu M Dash, Ramesh B, Parashurama KG, Mithilesh Kumar (Ed.). New Frontiers in Social Work Practice: Contexts, Perspectives and Experiences. Karnataka: Tumkur University, ISBN: 978-938-269-45-57.

Singla, Pamela (2019). 'My Journey into Social Work Education, Practice and Gender' (2019), in Manan: Reflections on Social Work Education and Practice by Ratna Verma (Ed.), BookGanga.com.

Verma, Surinder (2019). "Protecting Animal lives in Coastal Ecosystems." In Amita Singh, R. Lalitha S. Fernando and Nivedita P. Haran (Eds.). *Development in Coastal Zones and Disaster Management*, New Delhi: Palgrave Macmillan. SSN 2662-4176, ISSN 2662-4184 (electronic) and ISBN 978-981-15-4293-0, ISBN 978-981-15-4294-7 (e-book)<https://doi.org/10.1007/978-981-15-4294-7>

Verma, Surinder (April, 2020). Fiscal Decentralization in Local Governance: A Dream of Reality? Perspectives in Social Work, Vol. XXXV(1), 1-19. ISSN 0974-5114
Verma, Surinder (April, 2020). Fiscal Decentralization in Local Governance: A Dream of Reality? Perspectives in Social Work, Vol. XXXV(1), 1-19. ISSN 0974-5114

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board

Agnimitra, N.

- Member, Editorial Board, CJMR, Journal of Management Research (Journal of Dr. Vikhe Patil Foundation Centre for Management Research and Development).
- Academic Advisor, Learning Community (Journal of Educational and Social Development).

Bhatt, S.

- Managing Editor, Journal of Social Work Education, Research and Action.
- Member, Editorial Board, New Horizons in University Education: A Journal of Development and Social Justice.

Maske, S.

- Editorial Board Member, Indian Journal of Sustainable Development (IJS), ISSN-2394-7675 Published by Department of Social Work, Central University of Rajasthan & Publishing India Group, New Delhi.

Roy, S.

- International Advisory Board Member at Encyclopedia of Social Work, NASW, USA.
- Associate Editor at International Journal of Religion and Spirituality in Society, USA.
- Advisory Editorial Board Member at International Journal of African and Asian Local Government Studies, Rhodes University, South Africa.
- Editor at International Journal of Historical Archaeology & Anthropological Sciences, MedCrave.
- Editorial Board Member at Sociology International Journal, USA.
- Editorial Board Member at Journal of Ecology & Natural Resources (JENR), MedWin Publishers, USA.

Kaushik, A.

- Guest Editor of Research and Development Journal, Helpage India, Vol. 25, No.2, 2019, ISSN: 0972-0227 Special Edition

- Guest Editor of Research and Development Journal, Helpage India, Vol. 26, No.1, 2020, ISSN: 0972-0227 Special Edition

Research Projects

Bhatt, Sanjai

Conducted Research Study on Safety of Adolescent Girls in Public Transport for CASP – PLAN, funded by Plan India, New Delhi. Undertook an audit of Safety of Adolescent Girls in Public Transport for CASP – PLAN, Plan India, April 2019.

Undertook Impact of Bal Mitra Gram (Child Friendly Village) Intervention on the Lives of Children and the Community, Kailash Satyarthi Children Foundation, New Delhi, November 2019.

Undertook an Impact Study on Efficiency of Toilet Maintenance Project undertaken by HPCL in Tajpur block of Samastipur District in Bihar, CSR, HPCL, Mumbai, December 2019.

Undertook a Rapid Assessment Report for assessing the situation of under 6 children and status of women of Sarfabad, Barola and Amrapali of Noida, Uttar Pradesh, Mobile Crèches, New Delhi, July 2019.

Maske, Sudhir

Co-ordinating a Project Titled: Enhancing Educational and Vocational Aspirations among SC-ST Students: An Action Research in Underdeveloped district, Chhattisgarh.

Shashi Rani

Served as the faculty in-charge for Establishment of Social Service Unit in Police Stations of Delhi, sponsored by Ministry of Home Affairs, Government of India.

Thomas, N. T.

Undertook an Impact Assessment Study for Project RITES Limited, Mewat, Haryana by IICA, Ministry of Corporate Affairs

Undertook an Impact Assessment Study for a training programs conducted by AIC of India Ltd. across 10 centres near Sangam Vihar, Delhi-NCR by IICA, Ministry of Corporate Affairs

Pandey, Neena

Undertook a project for Establishment of Social Service Unit in Police Stations in Delhi, Ministry of Human Resource Development, Government of India (Nirbhaya Fund)

Sharma, Seema

Undertook Research Project on “Locating National Human Rights Commission within the Human Rights Discourse at the Grassroots in Rural India” funded by the National Human Rights Commission.

Undertook Research Project on “Impact Evaluation of GAIL CSR Projects” funded by GAIL India Limited.

Undertook Research Project on “Member, National CSR Awards Committee” funded by IICA.

Seminars Organized

- Refresher Course in Social Work and Social Sciences

Professor Pamela Singla was Course Co-coordinator in Refresher Course in Social Work and Social Sciences held under the Centre for Professional Development in Higher Education, (CPDHE), UGC-HRDC, University of Delhi, from 9th July to 22nd July 2019.

Conference/Workshop Organized

(a) Conferences/Workshops organized under Social Service Units of Delhi Police funded by Nirbhaya fund, Ministry of Home Affairs (MHA), Government of India

Project Director-Neena Pandey; Faculty Incharge-Shashi Rani

- An internal review conference of twenty Social Service Units of Delhi Police took place from 2nd June 2019 to 4th June 2019 in the Department of Social work, University of Delhi, wherein all Social Workers of SSUs presented their work of the past 16 months since the inception of SSU at divisional and sub-divisional level i.e. from 19th January 2018 till date. The purpose of this review conference was to assess the work progress of 20 SSUs on quantitative and qualitative basis through presentations made by SSU teams including journey of establishment of SSU, nature of cases & interventions carried out, outreach work including programs conducted/participated, analysis of relationship with police & other stake holders, challenges and issues and future plans.
- One full day workshop was organised on 15.7.19 in the Department of Social Work to finalise the Standard Operating Procedure (SOP). The stake holders from all the Technical Support Agency (TISS, JMI and DSSW) and Delhi Police attended the same. The representatives discussed the roles and responsibilities of Social workers, Police, TSAs. The procedures of addressing the issues of the violence survivors were clearly spelt out. It was in this meeting that the roles and responsibilities associated to children and elderly complainants were discussed and recorded.
- A three days refresher training on 1st, 14th and 15th of November, 2019 was organized by Department of Social Work, University of Delhi on 'Child Centred Interventions' at old guest house for social workers working under social service unit for social workers working under SSU project with the purpose to enhance their skills and strategies to strengthen their capacities on responding to children related cases. This training was designed in two parts, one was its theoretical part and skill based practical intervention part. First part of training was conducted on 1st November, 2019 at SPUWAC by Dr Sadhna Jain, Associate Professor, *Aditi Mahavidyalaya*, Delhi University. This session included developmental Stages of child from infancy to adolescence, theories of child development and child growth, parenting skills and strategies including positive parenting, mitigating the impact of intimate partner violence, psycho-social environment facilitating child well-being. The second part of refresher training aimed at strengthening skills and strategies and enabling the social workers to work effectively with children and their parents in the best interest of child. Resource person for the two days training was Ms Aarthi Chandrasekhar, Programmes Coordinator, RCI-VAW, TISS, Mumbai.
- A three days refresher training on 1st, 14th and 15th of November, 2019 was organized by Department of Social Work, University of Delhi on 'Child Centred Interventions' at old guest house for social workers working under social service unit for social workers working under SSU project with the purpose to enhance their skills and strategies to strengthen their capacities on responding to children related cases. This training was designed in two parts, one was its theoretical part and skill based practical intervention part. First part of training was conducted on 1st November, 2019 at SPUWAC by Dr Sadhna Jain, Associate Professor, *Aditi Mahavidyalaya*, Delhi University. This session included developmental Stages of child from infancy to adolescence, theories of child development and child growth, parenting skills and strategies including positive parenting, mitigating the impact of intimate partner violence, psycho-social environment facilitating child well-being. The second part of refresher

training aimed at strengthening skills and strategies and enabling the social workers to work effectively with children and their parents in the best interest of child. Resource person for this two days training was Ms Aarthi Chandrasekhar, Programmes Coordinator, RCI-VAW, TISS, Mumbai.

(b) National Job Fair and Ability Expo exclusively for Persons with Disabilities (PwD):

The Department of Social Work collaborated with National Skill Development Corporation (NSDC) and Inclusive Persons with Disabilities Entrepreneur Association (IDEA) and organized *Divyakaushal 2019 – National Job Fair and Ability Expo exclusively for Persons with Disabilities (PWD)*. The fair was organized on 2nd-3rd December 2019 at Bhaskaracharya College of Applied Sciences, Dwarka, New Delhi. The skilled Persons with Disabilities got access to the job in the industry of their interest and explored relevant employment opportunities. **Approximately 50 leading companies including Wipro, Zomato, Swiggy, Accenture, Aditya Birla Insurance, LIC, JLL** participated and provided employment opportunities to Persons with Disabilities. The **Ability Expo** had an Entrepreneurship Pavilion led by National Handicapped Finance and Development Corporation (NHFDC) that included Loan Fair, Franchisee Opportunities, mentorship, Persons with Disabilities Entrepreneurship Fair and an opportunity for established brands to showcase their work. The loan fair witnessed participation from leading banks like HDFC and SBI amongst others offering loans to Persons with Disabilities. The **Kaushal Haat** pavilion provided opportunities for counselling and skill training for different disability categories. Seminar and workshops on economic empowerment of Persons with Disabilities were also organized to inspire the youth and industry.

(c) **The First Nomad Inc. Conference** was jointly organized by Praxis, Partners in Change and Department of Social Work, University of Delhi on 6th December 2019 from 9 a.m. to 6 p.m., organized in the University of Delhi. The aim of the conference was to bring together Policy Makers, Civil Society Members, Youth from the Community, and other Stakeholders to shape and guide the discussions on the multiple challenges that govern the lives of DNT & NT Communities across the Country. The Conference was inaugurated by Prof. Neera Agnimitra, Head of the Department, Department of Social Work, University of Delhi.

(d) **Value workshop on accepting and managing diversity:** diversity and self-reflection was organized by the Department of Social Work, University of Delhi On 7th and 9th February, 2020. The workshop aimed at exploring the contours of diversity and its acceptance along with appreciating the strengths of diversity

Seminar/Conference Presentations/lectures delivered (National/International)-

Adusumalli, Malathi

Presented a paper ‘Resilience and Access to Common Property Resources: Towards Dealing with Climate Change’ at the International Conference on ‘Challenging Inequality: Working together for a Just Society’ on 7-9th November, 2019 by Australian Association of Social Workers Adelaide Convention Centre, Adelaide.

Presented a paper ‘Actor oriented approach to understand the development interventions: Experience from Mountain Communities’ at National Conference on Interaction of Knowledge, power and Ignorance: The Indian Context on 19th to 20th December, 2019 by Institute of Development Studies, Kolkata.

Chaired a Plenary Session on Recommendations and Way Forward from Groups at the South Asia People’s Conference on Climate Crisis on 20th September, 2019.

Invited speaker for 'Community Participation and Academic Institutions: Responsibilities and Way Forward' At the 1st Short term course in Community Participation and Outreach Programme held from 9th to 14th December, 2019 by UGC Human Resource Development Centre, Jawaharlal Nehru University.

Invited speaker for 'Case Study' at the Two-Day Workshop on Qualitative Data Analysis on 27th February, 2020 by Jamia Millia Islamia, Department of Social Work,

Agnimitra, Neera

Chaired a session on Research, Action and Policy and Disaster Risk Reduction at the National Consultative Workshop on University Network for Disaster Risk Reduction organised by National Institute for Disaster Management and UNISDR, New Delhi, April 5-6, 2019.

Participated as Expert in the Two Day Research Advisory Committee Meeting cum Workshop of the project Adolescence Education Programme in Madarsas of Bihar, funded by United Nations Population Fund, and held at MANUU, Hyderabad on 30th April & 1st May 2019.

Chaired the Panel Discussion on the theme "Women Empowerment and Higher Education" at the Women Summit 2019 at the Indian Social Institute, Lodi Road, New Delhi on 23rd November 2019.

Invited as Speaker on "Research Ethics in Higher Education and Role of Social Work Engagement in Enrichment of University Faculty" at Laxmi Bai College, University of Delhi, as part of Capacity Building Programme organised by IQAC on "Paradigm Shift in Higher Education" on 21st April 2019.

Delivered two Lectures on "Higher Education: The Context and Stakeholders" at the Faculty Development Programme on "Holistic Professional Development" at the Symbiosis Law School, NOIDA on 29th May, 2019.

Lecture delivered on "Social Work in the Indian Tradition" for the students and faculty of University of South Australia, 9th April, 2019 at Department of Social Work, University of Delhi.

Invited as Plenary Speaker for the theme "Understanding Abortion Stigma" at the Opening Panel titled 'Unfolding Abortion Stigma and Barriers for the CAC Conclave' (2019) on Expanding the Discourse on Comprehensive Abortion Care in India organised by Ipas Development Foundation at Roseate House, Aerocity, New Delhi on 20th August, 2019.

Delivered a lecture on the topic "Environmental Concerns and Social Work" at the Orientation Programme for M.A. (Social Work) students at the Department of Social Work, Jamia Millia Islamia University, New Delhi on 8th August, 2019.

Delivered Keynote Address at the National Seminar on Women and Gender Equality in Higher Education of India: Issues and Challenges, Mahatma Gandhi Kashi Vidyapeeth, Varanasi, 11th January, 2020.

Anand, Meenu

Presented a paper 'Gender and Schooling: Levelling the Playing Fields' in the International Conference on 'Women's Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women's Leadership: Issues and Challenges in 21st Century (Naareevaad - 2019)'. Organized by Krishi Sanskriti, New Delhi, India held at Jawaharlal Nehru University on 9th November 2019.

Invited as a Resource Person to conduct a lecture on 'Understanding Stress and Anxiety' in the Orientation Programme for students of M.A. (Social Work) on 8th August 2019 at Department of Social Work, Jamia Millia Islamia.

Invited as a Resource Person to conduct a lecture on 'Gender Sensitization' in the Orientation Programme for students of B.A. Honours (Social Work) on 24th July 2019 at Bhim Rao Ambedkar College, University of Delhi.

Bhatt, Sanjai

Delivered the valedictory Address, in National Conference on Values, Vision and Voices for Rural Development, organized by CSRD-ISWE, Ahmednagar, 13-15 December 2019.

Delivered the inaugural Special lecture on "Demystifying Research Paper: Building Arguments, Problematizing, Importance of Objectives and Research questions", in Academic Writing Symposium, organised by Centre for North East Studies and Policy Research, Jamia Millia Islamia, New Delhi, on 12th September, 2019.

Delivered the 30th Tara Ali Baig Memorial Lecture on Digital Shift, Future of Children, Youth and Society' organized by SOS Children's Villages of India, on 8th August 2019, Vishwa Yuvak Kendra, Chanakyapuri, New Delhi.

Delivered the Chairperson's Address, 7th Indian Social Work Congress, 2019 *Social Care and Social Wellbeing: Challenges and Opportunities for Social Work Profession* jointly organized by NAPSWI and Department of Social work, Lucknow University, Lucknow, October 11-13, 2019

Delivered the Initiation lecture in a Round Table Discussion on Appeal for Quality Enhancement Centres for Social Work Education organized by National Association of Professional social workers in India (NAPSWI) and School of Social Work, TISS on 29th November at Library conference Hall, TISS, Mumbai

Delivered the Welcome Address on March 19th as World Social Work Day at 2nd Global Social Welfare Digital Summit 2019 Organised by Social Work Helper, USA, <https://www.globalsocialwelfaresummit.com/welcome-address-and-honoring-march-19th-world-social-work-day-india/>

Resource person for Live interactive Video session on Appoint School Social Worker In Schools : An Advocacy Effort (India).in Global Social Welfare Digital Summit 2020 Organised by Social Work Helper, USA, 25th February 2020 <https://www.globalsocialwelfaresummit.com/session/appoint-school-social-worker-in-schools-an-advocacy-effort/>

Delivered the Key Note address, International Conference on the theme "Social Work, Law and Human Rights" Centre for Law and Society, Gujarat National Law University, February 1-2, 2020

Jha, Manoj K.

Invited as Key Note Speaker for Two Days National Conference on 'Contemporary Indian Society and Social Work Practice' organized by University of Mumbai at Master of Social Work Programme, Rajiv Gandhi Contemporary Study Centre, Mumbai, 20th Feb 2020.

Invited as speaker at the National Seminar on 'Transforming Bihar: Challenges and Strategies' organized by Council for Development of Bihar and Jharkhand, Delhi at India International Centre, New Delhi, 15th Feb 2020.

Invited as speaker to deliver a lecture on "Constitutional Safeguards in view of the changing Notion of Democracy" organised by CARVAN Education Society at Lecture Hall, Department of Environmental Sciences, North Campus, University of Delhi, 24th September, 2019.

Invited as Chief Guest on special lecture on “Can India become a five trillion economy?” organised by Seminar Association of the Department of Economics in collaboration with the finance and investment cell (FIC) of *Atma Ram Sanatan Dharam* College, University of Delhi, and 23rd August 2019.

Jha, Pushpanjali

Delivered lecture titled "Concept and approaches of Inclusive planning" at Department of Housing, School of Planning and Architecture, New Delhi- on 8th August, 2019.

Delivered lecture titled "Inclusive Planning: Models and Case Studies" at Department of Housing, School of Planning and Architecture, New Delhi, on 13th August, 2019.

Delivered lecture titled "Methods of Community Participation" at Department of Housing, School of Planning and Architecture, New Delhi, on 22nd August, 2019.

Delivered lecture titled "Concept and Approaches of People's Participation and People's Participation in Urban Planning" at Department of Housing, School of Planning and Architecture, New Delhi, on 5th September, 2019.

.Delivered lecture titled "Understanding Marginalization/s in the context of Spatial Planning of a City" at Department of Housing, School of Planning and Architecture, New Delhi, 26th September, 2019.

Delivered lecture titled "Understanding social and economic exclusion of the urban poor and addressing exclusion through urban planning". at Department of Housing, School of Planning and Architecture, New Delhi, 17th October, 2019

Kaushik, Archana

Delivered a lecture on Bhakti, Yoga and Social Work on 24th July 2019 at BSW orientation programme, Ambedkar College, University of Delhi

Delivered a lecture on Data processing and developing univariate, bivariate and multivariate tables in the training programme of judiciary staff on 10th July 2019 at National Institute of Criminology and Forensic Sciences, Ministry of Home Affairs, New Delhi.

Delivered a lecture on Indigenization of Social Work through Bhakti and Yoga on 11th July 2019 at the Refresher course for academic staff at CPDHE, University of Delhi.

Maske, Sudhir

Presented a paper “Dalit Literature an Ideological Apparatus in Indian Social Work Education” in National Conference on Contemporary Indian Society and Social Work Practice at Rajeev Gandhi Contemporary Study Centre, University of Mumbai. 20th & 21st Feb, 2020.

Invited as Paper Presenter for “National Conference on “Contemporary Indian Society and Social Work Practice” at Rajeev Gandhi Contemporary Study Centre, University of Mumbai, Mumbai. 20th & 21st February 2020.

Invited for National VNR Consultation on Children at Collaborative Intervention of NITI Aayog, United Nations India, WNTA and Civil Society Organization at Multipurpose Hall, IIC, Delhi. 16th January, 2020.

Invited as Resource Person to Speak on "Social Work with Marginalized Section" during orientation programme for BASW-IVth Semester Students at the Department of Social Work, Aditi Mahavidyalaya, University of Delhi. 20th July, 2019.

Invited as Speaker in NGOs Meet Event to Speak on "Poverty Eradication and Sustainable Development Goals" at the Department of Social Work, Aditi Mahavidyalaya, University of Delhi. 21st October, 2019.

Invited as an "Expert Committee Members on National CSR Awards Events" organized by Indian Institute of Corporate Affairs (IICA), Ministry of Finance, Govt. of India. Presided by the President of India at Vigyan Bhawan, New Delhi. 29th October, 2019.

Pandey, Neena

Presented a paper at 7th Indian Social Work Congress on 'Social Care and Social Wellbeing: Challenges and Opportunities for Social Work Profession' held on 11th October-13th October, 2019, titled 'Care and wellbeing: exploring the relevance of Casework Method', organized by National Association for Professional Social Workers in India (NAPSWI) and Department of Social Work, University of Lucknow, UP.

Presented a Paper at 4th International Conference on 'Future of Crime and Victimization: Issues of Governance and Policy' held on 30th and 31st January, 2020, titled 'Services to the Women Survivors of Violence: Role of Forensic Social Work'; organized by South Asian Society of Criminology and Victimology (SASCV) and Department of Criminology. Raksha Shakti University (Police and Internal Security University) in Ahmedabad, Gujarat.

Key Speaker in National Seminar on 'Sustainability Development Goals and Social work Intervention: Opportunities and Challenges' on 27.03.2019, organized by Department of Social Work, B.P.S. Mahila Vishwavidyalaya, Sonapat, Haryana.

Resource Person on Understanding Gender in two Days Training workshop on

'SOCIAL NORMS around GENDER and HEALTH CARE: PERSPECTIVES ON POLICY and PRACTICES' held on 20th November, 2019, Organised by Social Norms Knowledge Hub and Jamia Millia Islamia.

Key Speaker in 'One day Women Summit on Women Empowerment and Higher Education' held on 23rd November, 2019, organised by Women's Manifesto in Indian Social Institute, New Delhi.

Resource Person in One Day Workshop on 'Communication Skills and Personality Development' for University students and research scholars on 10th January, 2020, organized by Mahatma Gandhi Kashi Vidyapeeth, Varanasi.

Key Speaker in National Seminar on 'Women and gender equality in higher education of India: Issues and Challenges' on 11th January, 2020, organized by Mahatma Gandhi Kashi Vidyapeeth, Varanasi and supported by National Commission for Women.

Resource person in two-day National Conference on "Societal and Justice Response to Sexual Violence at Workplace: Measures for Policy Reform" held on 13th and 14th March, 2020 organized by Department of Social Work, Vivek College Bijnor, with the support of National Commission for Women (NCW).

Roy, Sanjoy

Invited as speaker for Risk Assessment for Field Release of Ae. Aegypti, Carrying Wolbachia to Control Dengue in India, at Indian Council of Medical Research – Vector Control Research Centre (ICMR-VCRC) with the collaboration of Monash University Australia in The Muse Sarovar Portico, A-1-Chirag Enclave, Greater Kailash Part-I, New Delhi on 21st November 2019.

Invited as speaker for Medical care for sexual and gender-based violence at Organised by Médecins Sans Frontiers (MSF) at India Habitat Centre, New Delhi on 24th September 2019.

Invited as speaker for Schizophrenia: Learning to Live a Life with dignity at Post Graduate Institute of Medical Education & Research, organized by Centre of Excellence in Mental Health, Ram Manohar Lohia Hospital, New Delhi on 24th & 25th May 2019.

Invited as speaker for The Future of Development Democracy organized at Indian Social Responsibility Network (ISRN) at New Maharashtra Sadan, New Delhi on 16th March 2019.

Sharma, Seema

Invited as speaker on 'HRM and Social Work: Human Relation profession' at Jamia Millia Islamia, New Delhi on 02.08.2020.

Shashi Rani

Presented Paper titled "Labour Welfare and Social Security for Public Industrial Sector In India - Issues and Challenges", in 7th Indian Social Work Congress, 11th October 2019 organised by Lucknow University, Lucknow, Uttar Pradesh.

Invited as Resource Person in Sensitisation and Training Program on "Psychological Aspects of Children Conflict and Preparation of Individual Care Plan", organised by DCPU-1, at Conference Hall-OHB-II, Sewa Kutir Complex Delhi, 27th February 2020.

Invited as guest speaker at orientation and motivation programme for youth of University of Delhi at the Department of Political Science, University of Delhi. Organised by Youth for Social Justice, University of Delhi on 1st October 2019.

Invited as moderator for a panel discussion on Different Dimensions of Violence faced by Women and Changes needed in the Mechanisms of Safeguarding Women's Safety and Security in two days Convention of RDAMA, held at Gandhi Peace Foundation, New Delhi, 13th and 14th September 2019 organised by RDAMA.

Invited as guest Speaker to take session on "Field Work Practicum-The Soul of Social Work Practice", Amity Institute of Social Sciences, Department of Social Work, University of Amity, Noida, UP, 22nd August 2019.

Invited as panellist to speak on child sexual abuse on event "KNOW YOUR RIGHTS- A comic book launch event", Organised by OUR VOIX, Delhi, 10th August, 2019.

Invited as Moderator for a Session on " Remembering Rajni Tilak, in the Memorial Programme Title, "Remembering Rajni Tilak and Her Legacy", Jointly Organised by RDMA, SAFR, NACDOR, NALR at India Social Institute, Lodhi Institutional Area, New Delhi, 30th March 2019

Singla, Pamela

Resource person and Guest of Honour at the UGC Sponsored National Conference titled 'Revamping Higher Education for Girls in India by Exploring Possibilities through Traditional and Innovative Teaching Techniques' organized by Aditi Mahavidyalaya and CPDHE, at CPDHE Auditorium, University of Delhi, and 28th August, 2019.

Presented a paper titled 'Resisting Violence: Women's Safety in Educational Institutions' and participated, at the 25th Asia-Pacific Social Work Conference (APSWC) on 'Social Work Partnerships towards an Equal

Society- Asia Pacific Perspective' at Bangalore, India, organized jointly by APASWE, INPSWA, Christ University and NIMHANS, 18-20th September, 2019, on 18th September, 2019.

Presented a paper titled 'Women and Resilience: Reflections from Empirical Research, India' (9th April 2019) and participated, at the International conference on 'Social Work and Social Resilience', Tehran, Iran organized by Iran Association of Social Workers, 6-9th April, 2019.

Resource Person and session Chair at the National Seminar titled 'Nanaji Deshmukh- An Epitome of Indian Social Work', organized jointly by Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha and Indira Gandhi National Centre for Arts, at Indira Gandhi National Centre for Arts, New Delhi, 11th October, 2019.

Delivered the keynote address at National seminar on the theme, 'Gender, Environment and Sustainable Development', organized by Rama Devi Women's University, Bhubaneswar, Odhisa, Auditorium, 29th February 2020.

Chaired the session on theme, 'Environmental Challenges and Gender Rights', in National Seminar on 'Gender, Environment and Sustainable Development' organized by Rama Devi Women's University, Bhubaneswar, Odhisa, held on 29th February 2020.

Resource Person for Symposium titled 'Social Work in Iran and World' organized by Iran Association of Social Workers, Allameh Tabataba'i University, Tehran, Iran, 8th April 2019.

Resource person for student and faculty interaction titled 'University Education, Research and Social Issues in India', Tabriz University, Iran, Faculty of Law and Social Science, 10th April 2019.

Delivered a lecture titled 'Research Management' at Faculty Development Program organized by Lakshmi Bai College, at Laxmi Bai College, University of Delhi, as part of Capacity Building Programme organised by IQAC on 'Paradigm Shift in Higher Education', at Seminar Hall, 21st April 2019.

Delivered lecture titled 'Are we the Second Sex: An Introduction to Sex and Gender?' at the Orientation Programme at the Department of Social Work, B.R., Ambedkar College, University of Delhi, 24th July, 2019.

Delivered lecture titled 'Violence against Women, Forms and Practices towards Elimination' organized by BPS Women's College, Sonapat, to mark the International Day for Elimination of Violence Against Women, Seminar Hall, 25th November 2019.

Delivered a lecture, titled 'Introduction to Empirical Research: An Overview' at Training Programme on 'Qualitative Methods in Labour Research' at V.V. Giri National Labour Institute, Noida, Conference room, 16-27th December 2019 on 17th December, 2019.

Thomas, N.T.

Presented a paper titled 'Democratic Deficit in Hill Areas of Manipur: A Cause for Concern', during the National Conference on Political Autonomy and Democratic Governance, from 28-29th August, 2019 organised by Centre for North East Studies and Policy Research, Jamia Millia Islamia, New Delhi.

Presented paper on "Smart SMEs in Smart Cities: Building SMEs Resilience to Disaster" in The Global Symposium on Disaster Resilient Smart Cities at Special Centre for Disaster Research Jawaharlal Nehru University, New Delhi, 4-6 December 2019.

Verma, Surinder

Presented a paper on “Smart SMEs in Smart Cities: Building SMEs Resilience to Disaster” in The Global Symposium on Disaster Resilient Smart Cities at Special Centre for Disaster Research, Jawaharlal Nehru University, New Delhi, 4-6 December 2019.

Students under Exchange Programme-Inbound/Outbound

None Placement Details (Number and Percentage of students placed, Number of Organizations visited for campus recruitment)

Department of Social Work runs an active placement cell with excellent track record of placements. It's worth mentioning here that we have been recognized as a top rank school of Social Work in job placements of the students, according to the Outlook survey of best professional colleges in India. Like every year, most of the students, this year, have secured placements in organizations of their choice. In the present academic year, many new organizations approached the department for the placements. The placement drive is an enriching learning experience for the students as well as the members involved. It also helps the department in understanding the demands and expectation of the organization from the candidates.

This year till March 2020, 18 organizations visited/contacted the department for placements and 31 students had already received a job offer. The placement process got affected due to the lockdown this year. But the effort continued till September 2020.

An average salary package of Rs 4.52 Lacs Per Annum (LPA) has been offered and the highest offer made is for Rs. 9 LPA, while the minimum Salary offered was 2.94 Lacs per Annum.

Extension and Outreach Activities

(a) Unnat Bharat Abhiyan(UBA)-The Department takes immense pride in spearheading the work of the Unnat Bharat Abhiyan Initiative for the University of Delhi. The work in the five villages adopted under the Community Development Cell programme moved to its third year with a new team of ten students being placed there for concurrent field work. Villages having low socio-economic indicators namely Badarpur Khadar, Chauhan Patti, Jagatpur, Mukundpur and Jharoda were chosen for community development initiatives. A team of eleven students and four faculty members have been taking up need based, planned and sustainable community initiatives in five communities in Delhi. The Department of Social Work, under the Unnat Bharat Abhiyan initiative adopted five villages to carry out developmental activities. The mandated mission is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India. In order to bring transformational change and induce developmental processes in the rural spaces, the Department has placed its social work students in these villages. They participate in the identification of the problems of the particular village; chalk out intervention plans; and then engage in participatory community initiatives to address the same. It also needs to be mentioned that right from the initiation of work in the five villages adopted by the University in the year 2015, apart from other need-based efforts; initiatives focusing on sanitation and health have always occupied primacy within the work agenda of the Unnat Bharat Abhiyan teams.

(b) Centre for Community Development and Action (CCDA) 2019-2020

The centre for Community Development and Action CCDA earlier known as Gram Mahila Kendra is an Extension and Demonstration unit of Department. It's present area of work in Burari is Ajit Vihar. Professor Pamela Singla is presently the Director (Honorary) of CCDA (since 21st July 2014). Mr. Mohit who worked as the full time social worker at CCDA had to leave due to non-renewal of his services by the University. Presently, two students from the Department are placed at Ajit Vihar for their concurrent field placement. The activities undertaken by the CCDA this academic year included:

- **Balwadi-** The balwadi program strives to provide formal and informal education to the underprivileged children of the community. The strength of the class is 20. Moral lesson through usage of multimedia, storytelling, recitation, art and craft sessions, activity-based learning is used as a methodology of teaching. Dance therapy and physical fitness through sports day was organized for the children.
- **Women group-** Women of the community who are largely involved in unorganized sector are brought together through group meetings and discussion on the topic of women safety, domestic violence, health and hygiene etc.
- **Menstrual Health and hygiene-** This year the focus of the work in the community was menstrual health and hygiene of young girls and women. The adolescent girls and women of the community were engaged in demonstrative group discussion pertaining to the healthy and hygienic habits to be followed during the period.
- **Adolescent girl's group** – The group was involved in co-curricular, recreational activities, discussions and meetings. Career guidance and counselling was also provided to the girls related to educational and job opportunities. Two girls were helped get admission in IT course and jobs.

(C) Centre for Child and Adolescent Well-Being (CCAW) 2019-2020

Centre for Child and Adolescent Wellbeing (CCAW), earlier known as the Child Guidance Centre is the demonstration project by the Department of Social Work, University of Delhi. The centre provides diagnostic, treatment and referral services to children, adolescents and their family members. It also caters to the neighbouring schools and community focusing on preventive and promotive well-being programmes for the better wellbeing of the children. The Centre trains students of social work profession both from bachelors and masters' course. These students are also engaged in neighbouring schools to conduct weekly sessions on life skills, family life education and ethical values with children and adolescents.

The team of the Centre comprised of Honorary Director, who is one of the faculty members from the Department, full time Social worker and one office attendant. Centre also avails part time services of Clinical Psychologist, Speech Therapist and Special Educator. The services of the centre have been suspended in the year 2016 due to lack of funds from the University. The Social Worker's tenure was from July 2018 to July 2019. Because of this the centre had to curtail its services in house and focused on outreach activities instead.

Number of M.Phil./Ph.D Degree Awarded -PhD, -M.Phil.

8 scholars have been awarded M.Phil degree in the year 2019-2020. During the period from March 31st 2019 to March 31st 2020, 8 PhD scholars have submitted their thesis.

Faculty Strength

15 permanent faculty, 1 ad-hoc faculty and 5 guest faculty.

Other Significant Information

Department organized Alumni meet for the year 2019-2020

DEPARTMENT OF SOCIOLOGY

Major activities and achievements

Among the highlights of the year was the first alumni meet that the Department of Sociology organized on 2nd November 2019 to celebrate 70 years of its foundation. The response was overwhelming as alumni from across generations attended the meeting. An alumni association with a directory has been initiated as well as alumni groups set up on social media platforms like Facebook and LinkedIn. The alumni association, DOSA, is actively involved with the Department's placement cell. The Department as always has been active in organizing seminars and workshops the details of which are given below. Apart from the weekly Sociological Research Colloquium and the biannual research scholar's workshop, one of the highlights of the year was the international conference on 'Environment as Metanarrative' on 5-6 March 2020. The papers presented at the conference will be published.

Publications:

Agrawal, A. (2019). Sex work and the political gaze. *Social Change*, 49(3), 531–537. <https://doi.org/10.1177/0049085719863905>

Chatterji, R. (2020). *Graphic narratives and the mythological imagination in India*. London & New York: Routledge.

Chatterji, R. (2020). Jatra. In Nair, R.B.&deSouza, P.R. (Eds.) *Keywords for India: A conceptual lexicon for the 21st century*. London: Bloomsbury.

Chatterji, R. (2020). Poetry as a form of Life. Response to A. Brandel. The Prosody of Social Ties. Poetry and Fleeting Moments in Global Berlin. *Current Anthropology*, 61(4): 514-43.

Chatterji, R. (2020). Is life a riddle? Storytelling and the ethnographic imagination. In Lahiri, S.C. *Doing social research: Qualitative methods of Research in Sociology*. Delhi: Orient Blackswan.

Chatterji, R. (2020). Medical institutions and their counter cultures. In Brosius, C. and Mandoki, R.(Eds.) *Caring for old age: Perspectives from South Asia*. Heidelberg: Heidelberg University Publishing.

Palriwala, R.(2020). Love marriage. In Nair, R.B. & de Souza, P.R. (Eds.) *Keywords for India: A conceptual lexicon for the 21st century*. London: Bloomsbury.

Palriwala, R.(2019). Framing care: Gender, labour and governmentalities. *Indian Journal of Gender Studies*, 26(3): 237-262.

Palriwala, R. (2019). Confronting disciplinary practices: Rethinking the sociology of family, marriage and kinship. In Sujata Patel (Ed.). *Exploring sociabilities of contemporary India: New perspectives*. Delhi: Orient Blackswan.

Nawn, N & Vasan, S. 2019. Labouring nature, labour in nature. *Economic and political weekly*, 54(37): 33-34.

Singh, S. B.(2019). Living together separately: Dalits in an emerging collectivity in a Rajasthan village. In Jodhka, S. S. and Simpson, E. *India's villages in the 21st century: Revisits and revisions*, Delhi: Oxford University Press.

Singh, S. B. (2019). *Democracy and social movements: A sociological analysis of Bihar's backward class movement*. Delhi: Ane Books

Vasan, S.(2019). Seeing through infrastructure. *Economic and Political Weekly*, 54(47).

Vasan, S., Mehta, V.& Tribhuvan, P. (2019). Characterizing the relationship between forest dependent peoples and state forest management institutions in the Global South. *Environment Research Letters*, 14(083001): 1-16.

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board

Abraham, Janaki

- Member, Editorial Advisory Committee, Explorations (The Indian Sociological Society's E-Journal)
- Member Scientific Board of Urbanities – Journal of Urban Ethnography.

Arif, Yasmeen

- Member, Scientific Committee, Humanitarian Encyclopedia Project, University of Geneva and CERAH.
- Editorial Board Member. International Journal of Architecture & Ekistics. Faculty of Architecture & Ekistics, Jamia Millia Islamia, New Delhi, India.

Chatterji, Roma

- Member, Editorial Board, Culture and Society in South Asia
- Member, Editorial Board, Journal of Indian Folkloristics
- Member, Editorial Board, Theoria and Praxis, Indian Journal of Adivasi and Indigeneity Studies
- Member, Editorial Board, Corresponding Editor Medical Anthropologist Quarterly
- Member, Editorial Board, International Advisory Board of Thinking from Elsewhere. Book Series by Fordham University Press, New York.

Chopra, Radhika

- Editorial Collective, Sikh Formations, Religion, Culture, Theory [Taylor and Francis]

Dasgupta, Abhijit

- Member of the Editorial Advisory Board, The University of Dhaka Journal of Anthropology, Bangladesh.
- Member of the Editorial Advisory Board, The Journal of South Asian Studies, University of Tokyo, Japan.

Deshpande, Satish

- Member, Editorial Board, Pariprekshay (NIEPA, Delhi)
- Member, Scientific Board, Anuario Antropologico (University of Brasilia)
- Member, Editorial Board, History and Sociology of South Asia (Sage)

- Member, Editorial Advisory Board, Pratiman: Samay, Samaj, Sanskriti (CSDS, Delhi)
- Associate Editor, International Sociology (Sage)
- Member, Editorial Advisory Board, South African Review of Sociology (Routledge)
- Member, Editorial Board, book series, South Asia in Motion, Stanford University Press.
- Member, Editorial Board, book series, South Asia in the Social Sciences, Cambridge University Press, India.

Palriwala, Rajni

- Member, Editorial Board, Women's Equality

Sundar, Nandini

- Member, Editorial Board, HAU Journal of Ethnographic Theory
- Member, Editorial Board, Cambridge Journal of Anthropology
- Member, Editorial Board, INSEE
- Member, Editorial Board, Sociological Bulletin
- Member, Editorial Board, Anthropological Theory
- Member, Editorial Board, Contributions to Indian Sociology
- Meenakshi Thapan,

Thapan, Meenakshi

- Senior Editor for The Oxford Encyclopedia of Qualitative Research Methods in Education. Oxford University Press, USA 2016 onwards.
- Member, Advisory Board, new Series on Crossing Borders in a Global World: Applying Anthropology to MeMember, Advisory Board, new Series on Crossing Borders in a Global World: Applying Anthropology to Meenakshi Thapan, Migration, Displacement, and Social Change, edited by Nancy Konvalinka and Raul Sanchez Molina (UNED, Madrid), Lexington Books, 2017 onwards.
- Senior Editor for The Oxford Encyclopedia of Qualitative Research Methods in Education. Oxford University Press, USA 2016 onwards.

Vasan, Sudha

- Book Reviews Editor, Conservation and Society
- Associate Editor on Editorial Board of the journal Ecology, Economy and Society.
- Review Editor on the Editorial Board of Political Ecology (specialty section of Frontiers in Human Dynamics).

Research Projects

Rajni Palriwala. Member of the project on *Moralising Misfortune: A Comparative Anthropology of Commercial Insurance*, based at Leiden University, Faculty of Social Sciences, Department of Cultural Anthropology and Development Sociology, funded by the European Research Council, collaborating with Dr. Erik Baehre, the lead researcher. Local Supervision of Tim van der Meerendonk, doctoral candidate at Leiden University.

Rajni Palriwala. Member of International RTG on *Minor Cosmopolitanisms*. Based at University of Potsdam, Freie Universität, Berlin, and Humboldt University with partners at University of New South Wales, Macquarie University, University of Cape Town, University of Pretoria, York University, Duke University and IFLU. Doctoral co-supervisor of (1) Irene Hilden, registered at Humboldt University, working on 'Absent Presences in the Colonial Archive: Dealing with the Berlin Sound Archive's Acoustic Heritage'; (2) Tori Sinanen, Freie Universität, Berlin, 'Mapping (under)development: A situational analysis of rural survival in East Trinidad'.

Seminars Organized

- A paper entitled 'Imagery as Discourse: Locating Developmentalism in Indian Currency and Coinage and its Contestations' was presented by Amit Prakash, Professor, Centre for the Study of Law and Governance, Jawaharlal Nehru University, New Delhi at the Sociological Research Colloquium on 5th April 2019
- A paper entitled 'Disciples of the Word' was presented by Savyasaachi, Professor of Sociology, Jamia Millia Islamia University, Delhi at the Sociological Research Colloquium on 12th April 2019.
- A paper entitled 'Myths, and the Visual Imagination: The 'Duplicitous Maiden' as a Narrative Theme in Gond Art' was presented by Roma Chatterji, Department of Sociology, University of Delhi, at the Sociological Research Colloquium on 13 September 2019
- A paper entitled 'Anti-Semitism, the Contemporary Left and the Temptation of the Conspiracy Fantasy' was presented by David Hirsh, Professor of Sociology, Goldsmiths University, London at the Sociological Research Colloquium on 20 September 2019.
- A paper entitled 'Subaltern, Religion and the State: The Making of a Dalit Community in Postcolonial Odisha' was presented by Byasa Moharana, Assistant Professor of Sociology, Tata Institute of Social Sciences, Tuljapur Campus at the Sociological Research Colloquium on 27 September 2019
- A paper entitled 'Housing and Labour relations in Rural Rajasthan: A Village-level Case Study' was presented by Shamsher Singh, Assistant Professor of Sociology, Flame University, Pune at the Sociological Research Colloquium on 18 October 2019.
- A paper entitled 'Narrow Fairways: Getting By & Falling Behind in the New India' was presented by Patrick Inglis, Assistant Professor of Sociology, Grinnell College at the Sociological Research Colloquium on 25 October 2019
- A paper entitled 'Various Shades of Sociology: A Rationale for Dalit Perspective' was presented by Vivek Kumar, Professor of Sociology, CSSS, SSS, JNU at the Sociological Research Colloquium on 1 November 2019
- A paper entitled 'Transforming the Subjective and the Objective: The Calling of Transpositional Subject-objectivity' was presented by Ananta Kumar Giri, Professor, Madras Institute of Development Studies, Chennai at the Sociological Research Colloquium on 22 November 2019.

- A paper entitled ‘The story of India’s earliest indigenous scanning tunneling microscopes (STMs) and what lab studies can tell us about S&T policy making in India’ was presented by Pankaj Sekhsariya, Associate Professor, Centre for Technology Alternatives for Rural Areas (CTARA) & Associate Faculty, Centre for Policy Studies (CPS), IIT-Bombay at the Sociological Research Colloquium on 10 January 2020
- A paper entitled ‘Skin Colour and “Colourism”’: A Global View’ was presented by Edward Telles, Distinguished Professor of Sociology, University of California at Santa Barbara at the Sociological Research Colloquium on 17 January 2020.
- A paper entitled ‘Risk, Trust, Poverty and Finance: A Colonial Vista of Pensions’ was presented by Geeta Patel, Fulbright-Nehru Senior Research Scholar, Middle Eastern and South Asian Languages and Cultures, University of Virginia’ at the Sociological Research Colloquium on 24th January 2020
- A Book discussion on Roma Chatterji’s book *Graphic Narratives and the Mythological Imagination in India* and Shashi Bhushan Singh’s book *Democracy and social movements: A sociological analysis of Bihar’s backward class movement* was organized by the Department of Sociology on 14th February 2020.
- A Seminar was organized for Pre-PhD Students in the Department in which Ten Research Scholars of the Department presented their PhD research.

Workshops/Conferences Organised

- The Department organized a Joint Workshop on Shivalal Sawhney Scholarship and Krishna Raj Fellowship Presentations on 12th September 2019.
- The Department organized the RC21 Conference in Delhi with Yasmeen Arif as the Lead organizer from 18th -21st September 2019. RC21 is the Urban Studies committee of the International Sociological Association.
- The Department in collaboration with the institute for Economic Growth, Delhi organized the IJURR Foundation (International Journal for Urban and Regional Research) for PhD school on Urban studies with Yasmeen Arif as the Lead Organizer, from the 7th to 17th of September 2019.
- The Department of Sociology organized a Research Scholars Workshop in which more than 15 research scholars presented their work, 14-15 November 2019.
- The Department organized ICSSR and HBS Supported National Seminar on The Environment as Metanarrative, with Sudha Vasan as the Lead Organizer from 5th to 6th March 2020

Seminar/Conference Presentations (National/International)

Agrawal, A.

“The child marriage conundrum: Learning from the Bedia Case.” At the 1st Nomad Inc. Conference 2019, Organised by Praxis India, Partners in Change and Department of Social Work, University of Delhi, held at University of Delhi Guest House, on 6th December 2019.

“Indian Elderly and ‘Familialist’ State Policies” at the Conference on Family Policies in Asia, organized by Asia Research Institute, National University of Singapore, Singapore, on 21-22 November 2019.

“Arya Samaj Marriage in Indian Courts” at the Conference on ‘New Directions, New Voices in Family Law

in India', jointly organized by National Law School of India University (NLSIU), Melbourne Law School (MLS), The University of Melbourne and the Faculty of Law, University of Oxford held on 5-6 July 2019, NLSIU in Bangalore, India.

Delivered a Lecture titled 'Dos and Don'ts of Research: A Preliminary Orientation' at a Three Days Research Methodology Workshop organized by Institute of Home Economics, University of Delhi, 8-10th January, 2020.

Delivered a Lecture titled 'How not to do research' at the Seven-day Research Methodology Workshop organised by Centre for Culture, Media & Governance, Jamia Millia Islamia, New Delhi on 12th December 2019.

Panelist at the Book Launch and Panel Discussion on Sameena Dalwai's Ban and Bar Girls: Performing Caste in Mumbai's Dance Bars, organized by Women Unlimited and O.P. Jindal Global University at NTH Complex, Qutab Institutional Area on 4th December 2019.

Arif, Y

Humanity, Identity, Biopolitics Symposium. School of Social Sciences. University of Sydney. on 1st November 2019.

Cosmopolitics. Shiv Nader University, UP, India July 23-24th. 2019.

The Hierarchies of Knowing Life: The Event of a Suicide Note. Egalitarianism, Hierarchy and Global Intellectual Labour beyond the West Workshop. University of Bergen - NIAS. Bengaluru. 19th - 21st September 2018.

IJURR PhD School Lecture. 11th September 2019.

Chatterji, R.

"The Ramayana in the Age of Environmental Apocalypse." At National Conference on *Environment as Meta-Narrative*, Department of Sociology, Delhi University, 5-6 March 2020

Delivered a keynote address "The Folk and the Making of an Indian Aesthetic." at National Conference on *Culture and Aesthetics in Indian Folklore*, Department of English, Delhi University, 29.2.2020.

"Myths and the Visual Imagination." At *Visuals in South Asia*, workshop at Centre for Culture, Media and Governance, Jamia Millia Islamia on 28.2.2020.

Discussant at Workshop on Kumartuli, organized by the University of Glasgow, Global Heritage Programme, Lalit Great Eastern Hotel, Kolkata, 16th November 2019.

Delivered inaugural lecture "Indian Sociology and its Objects." at SHSS Lecture Series, *Thinking across Boundaries*, Sharda University, Greater Noida, 11th October 2019.

Delivered a paper titled "Myths, and the Visual Imagination: The 'Duplicitous Maiden' as a Narrative Theme in Gond Art." Sociological Research Colloquium, Department of Sociology, Delhi University, 13th September 2019.

Panel Discussant on 'Cultural Labour. Conceptualizing 'Folk Performance' in India' by Brahma Prakash. School of Arts and Aesthetics, JNU, 30th August 2019.

Delivered the Hetukar Jha Memorial lecture on "Temporal Rhythms in Village Life: Stories of Abundance

and Lack in a Village in the Purulia District of West Bengal” at TISS, Patna Centre, 15th February 2020.

Chopra, R

Presented a paper titled on ‘School Bags and Hungry Stomachs: The challenge of schooling and masculinities in India’; ‘Chasing a No-where Future: Is Masculinity Ever Disempowering?’ & ‘Regulating Unruly Boys: Media, Masculinity and Class’ at Deconstructing Masculinities- ADB conference. 7 and 8 November 2019, Colombo. Sri Lanka Resident Mission, Asian Development Bank.

ZiddiMunde- Pig Headed Boys: On the Migration of Men. Workshop, Centre for Global Public Health and the Global Policy Institute, Queen Mary University (London), International Organisation on Migration (IOM), UN University- Institute of Global Health & MHADRI network. Kathmandu, Nepal, April 25, 2019

Discussant on ‘Spatializing Popular Sufi Shrines in Punjab’ at School of Liberal Studies, Ambedkar University, Delhi. 30 August 2019.

Palriwala, R.

Delivered a lecture at Madhuri Shah Memorial Lecture, entitled “Visible and Invisible Violence: Gender, Equality and Justice”, in National Conference on Women’s Studies (IAWS), co-hosted by IAWS, CWDS, and the National Law University, Delhi, in January 2020, held at the National Law University, Delhi.

Delivered keynote lecture entitled, “Inequality, inequity and gender: Invisible and visible violence” at the International Conference on *Gender Equity: Challenges and Opportunities* organised by Sardar Vallabhai National Institute of Technology, Surat on 19-20 Dec.2019.

Paper entitled, ‘Negotiating Money and Social Networks: Provisioning Care in Contemporary India’, at the international conference entitled *Moralising Misfortune: Anthropological Perspectives on Finance, Care and Morality*. Organised by ERC Project on Moralising Misfortune at the Institute of Cultural Anthropology and Development Sociology, Leiden University, held at Leiden University, 4-5 July 2019

Discussant at the International Conference on *Demography, Reproduction, and Cultural Anxieties* held at the Indian Institute of Technology, Delhi, February 2020.

Delivered a Special Lecture entitled, ‘The Idea of India’ at Bharati College, 23 January 2020.

Delivered a Lecture entitled ‘Gendering Sociology’, at Distinguished Speakers Lectures Series, Janaki Devi Memorial College. 26 September 2019.

Delivered a Lecture entitled, ‘Anthropology, Kinship and Gender’ at Flame University, 12 October 2019.

Vasan, S.

Presented a paper titled “We are all environmentalists: Framing life in the NGT.” at the National Seminar on The Environment as Metanarrative, Department of Sociology, Delhi School of Economics, University of Delhi, Delhi. 06 March 2020.

Presented a paper titled “The Environment as Metanarrative: Concept Note.” at the National Seminar on The Environment as Metanarrative, Department of Sociology, Delhi School of Economics, University of Delhi, Delhi. 05 March,2020

National/International MOUs signed

- MOU with Xiantan University, China is in process.
- MOU with Leiden University

Other Institutional Collaboration

Radhika Chopra was Principal Investigator University of Delhi and University of Edinburgh Project “From the Margins: Low Income Migrants Access to Basic Services and Provisions: Jullundur and Guwahati” ESRC-ICSSR Collaborative Research Program on Urban Transformations in India.

Rajni Palriwala was Visiting Researcher in June-July 2019, in the project on *Moralising Misfortune: A Comparative Anthropology of Commercial Insurance*, Leiden University, Faculty of Social Sciences, Department of Cultural Anthropology and Development Sociology.

Students under exchange Programme

Rishal Rahul Haque was an exchange student from Heidelberg who took an MA course in the Department.

Placement details Details if any

- One student Simran Gupta was placed with Green Dream Foundation.

Extension and outreach activities

- Roma Chatterji served as subject expert for the sociology syllabi of the following: IP Institute of information Technology, Shiv Nadar University, School of Open Learning Jamia Milia Islamia.
- Roma Chatterji “Myths, and the Visual Imagination: The ‘Duplicitous Maiden’ as a Narrative Theme in Gond Art.” Distinguished Lecture Series on *Art and Artists*. Janaki Devi Memorial College, Delhi University on the occasion of its Diamond Jubilee Celebrations, 5th November 2019.
- Radhika Chopra, Expert Commentator, UNESCO Report ‘Transforming ‘Mentalities’ UNESCO, New Delhi 20 Nov 2019.
- Rajni Palriwala, conducted a workshop on ‘Women, caste and communalism’ for survivors of domestic violence, organized by Jagori, Delhi on 6 April 2019.

Number of M.Phil/Ph.D. Degrees Awarded

- Six Students were awarded Ph.D. Degree during the period.
- Nineteen Students were awarded M.Phil Degree during the period.

Faculty Strength

3 Professors, 4 Associate Professors, 7 Assistant Professors (1 SC, 1 ST, 1 OBC, 1 PWD; 1 to retire on 31st August). Vacant positions are 4 Professorships, 6 Associate Professorships, 2 Assistant Professorships, and 3 Research Associates

Other Significant Information

The First Alumni Meet of the Department was held on November 2, 2019.

COLLEGES

ACHARYA NARENDRA DEV COLLEGE

Major Activities and Achievements

Acharya Narendra Dev College was ranked 18th in the NIRF (MHRD, Govt. of India) 2020 ranking, ranked 19th and 23rd among the best Science colleges by India Today and The WEEK 2020 respectively. Two flagship schemes *Paramarsh* and *Unnat Bharat Abhiyan* of Government of India were sanctioned to the college. Seven departments of college were recognized for financial support under DBT-STAR Scheme of Department of Biotechnology (DBT), Government of India. Three students attained merit positions in University examinations and 15 got merit positions at South Campus level. Four students got selected for THSTI, Faridabad, Shadow a Scientist Program; three were Conferred DD Kosambi, Young Scientist Award; and one K S Krishnan Student-Mentor Award by HBCSE, TIFR, Mumbai. College continued to fund its Flagship Schemes- SAKSHAM (financial assistance to students), ELITE (Summer fellowships) and EXPLORE (excursion for 2nd year students). College continued to provide Research contingency of Rs.15000/- per annum to each of fifteen college research laboratories.

Honours/Distinctions

Dr. Gagan Dhawan, Department of Biomedical Science, awarded 'Scientist of the Year Award' in 4th International Conference on Innovative Approaches in Applied Science and Technologies (iCiAsT-2019) at Kuala Lumpur, Malaysia

Dr. Charu K. Gupta, Department of Botany, selected for INSA Bilateral Exchange Programme-2019 and visited Jozef Stefan Institute, Slovenia for two weeks.

Students with Distinctions

Rahul Chawla of B.Sc. (Hons) Electronics II year was awarded first rank in the University.

Surya Pratap Singh of B.Sc.(Hons) Physical Sciences III year was awarded second rank in the University.

Shubhangi Pandey from B.Sc. (Hons) Botany III year was awarded third rank in the University.

15 students bagged merit positions at University of Delhi South Campus (UDSC).

Publications

Abraham, J. S., Sripoorna, S., Dagar, J., Jangra, S., Kumar, A., Yadav, K., Singh, S., Goyal, A., Maurya, S., Gambhir, G., Toteja, R., Gupta, R., Singh, D. K., El-Serehy, H. A., Al-Misned, F. A., Al-Farraj, S. A., Al-Rasheid, K. A., Maodaa, S. A. and Makhija, S. (2019). Soil ciliates of the Indian Delhi Region: Their community characteristics with emphasis on their ecological implications as sensitive bio-indicators for soil quality. *Saudi Journal of Biological Sciences*, 26(6), 1305-1313.

Gautam, D., Lal, S. and Hooda, S. (2019). Adsorption of Rhodamine 6G Dye on Binary System of Nanoarchitectonics Composite Magnetic Graphene Oxide Material. *Journal of Nanoscience and Nanotechnology*, 20, 1-7.

Kumar, Shani., Garg, A. and Chowdhuri, A. (2019). Comparison of water purification properties of Graphene Oxide (GO) membranes with tuned interlayer spacings. *Materials Research Express*, 6, 015604.

Kumar, P., Kundu, A., Kumar, M., Solanki, R. and Kapur, M. K. (2019). Exploitation of potential bioactive compounds from two soil derived actinomycetes, *Streptomyces sp.* strain 196 and RI.24. *Microbiological*

Research 229. <https://doi.org/10.1016/j.micres.2019.126312>

Mishra, M., Gupta, K. K. and Kumar, S. (2019). Diminished activity of larval midgut transaminases and phosphatases in *Helicoverpa armigera* Hübner (Lepidoptera) induced by dietary stem extracts of *Thevetia nerifolia*. The Journal of the Lepidopterists' Society, 73(1), 23-33.

Pradhan, P., Srivastava, A., Singh, J., Biswas, B., Saini, A., Siddique, I., Kumar, S. and Kundu, B. (2020) Prion protein transcription is auto-regulated through dynamic interactions with G-quadruplex motifs in its own promoter. Biochimica et Biophysica Acta (BBA)-Gene Regulatory Mechanisms.194479.2020.

Saxena, R., Kaur, S. and Bhatnagar, V. (2019). Identifying similar networks using structural hierarchy. Physica A: Statistical Mechanics and Its Applications, 10.1016/j.physa.2019.04.265.

Singhal, S., Khanna, P., Panda, S. S. and Khanna, L. (2019). Recent Trends in the Synthesis of Benzimidazoles from o-Phenylenediamine via Nanoparticles and Green Strategies Using Transition Metal Catalysts. In Journal of Heterocyclic Chemistry, 56(10), 2702–2729.

Singh, I., Priyam, A., Jha, D., Dhawan, G., Gautam, H. K. and Kumar, P. (2019). Polydopamine – aminoglycoside nanoconjugates: Synthesis, characterization, antimicrobial evaluation and cytocompatibility. Materials Science and Engineering C, 107, 110284.

Sinha, A., Eniyan, K., Manohar, P., Ramesh, N. and Bajpai, U. (2020). Characterization and genome analysis of B1 sub-cluster mycobacteriophage PDRP_{xv}. Virus Research, 279, 197884.

Journals

Published by College: Annual College Magazine-‘Insight’

Number of college teachers serving as Editor(s)/ Member(s) of Editorial Board:13 (Reviewers)

Research Projects

SERB-DST, 2018-2021, entitled “Recombinant Endolysins from Mycobacteriophages: Exploring their Anti-Mycobacterial Potential”. Dr. Urmi Bajpai (Principal Investigator) Amount 46.702 lakhs.

ICMR, 2019-2022, entitled “Principal investigator of a multi-institution project (October 25, 2019-22) ‘An Investigational Study on Mycobacteriophages and their Enzymes as New Drug (IND) for Treating Tuberculosis’”. Dr. Urmi Bajpai (Principal Investigator) Amount 22.160 lakhs.

DST, 2019-2020, entitled “Developing and Documenting Innovative Practices for Learning Physics and Biology through Experimentation for Children and Young Adults”. Dr. Sarita Kumar (Principal Investigator) Amount 12.60 lakhs.

Patents Filed/Granted:

Dr. Sunita Jetly, Faculty, Department of Biomedical Science, ANDC was principal investigator in a patent for developing a ‘Quick and inexpensive diagnostic technique for detection of chronic myeloid leukemia’ (2019) granted to University of Delhi.

Mr. Prashant Pradhan, Faculty, Department of Biomedical Science, ANDC was one of the contributor in provisional patent for developing a ‘Diagnostic tool for rapid detection of COVID-19 virus’ (2020) granted to IIT-Delhi.

Seminars Organized

Dr. Shahid Jameel, CEO, Wellcome Trust/DBT India Alliance, Lessons from a Career in Science, February 4, 2020

Dr. Nidhi Sandal, Mr. Ravi Chadha, Dr. Atul George Scari, Scientist E, INMAS, DRDO Partner, Trademark- Rahul Chaudhry & Partners Assistant Professor, National Law University, Delhi, Intellectual Property Rights (IPR), November 7, 2019.

Dr. C.V. Srikanth, Associate Professor, Regional Centre for Biotechnology, Biomedical Research in India: from a Rat Race to Taking-up the Real Challenge of Combating Disease, September 25, 2019.

Dr. Sidharth Chopra, Sr. Scientist, Division of Microbiology, CDRI, Lucknow, Drug Discovery against MDR Microbes, August 28, 2019.

Dr. Utkarsh Sood & Dr. Vipin Gupta, Directors, PhiXgen Pvt. Ltd., Metagenomics, April 4, 2019.

Conferences Organized

One-day Inter-disciplinary exhibit presentation entitled 'New frontiers in science' held at Acharya Narendra Dev College, University of Delhi on October 22, 2019 under the aegis of DBT- STAR college program.

Seminar/Conference Presentations

Agarwal, S. (2019) Action of Monoid and Ternary Monoid on a Set at International Conference on Semigroups and Applications (ICSAA-2019), organized by Department of Mathematics, Cochin University of Science and Technology, Kochi.

Bajpai, U. (2019). A new phage consortium hosts its first public lecture. *Capsid & Tail* at International Bacteriophage Research Consortium, India International Centre, New Delhi.

Drashya[#] and Hooda, S. (2020) Rhodamine 6G Adsorbed by Eco-friendly adsorbent Needle – Shaped Chitin Nanoparticle in Day light at International Conference in Advance on Smart Materials & Emerging Technologies, ASMET-2020, Indira Gandhi Delhi Technical University for Women, Delhi.

Eniyan, K., Manohar, P., Bajpai, U. and Ramesh, N. (2019) Transcriptional Analysis of *dew* Operon Genes of *Mycobacterium smegmatis* at ASM Microbe 2019, in San Francisco, United States of America.

Garg, A., Chowdhuri, A. and Kumar, S. (2019) Enhancing water filtration capacities by tailoring interlayer spacings of Graphene Oxide (GO) membranes at 3rd International Conference on Materials Science and Materials Chemistry, Vienna.

Kapur, M.K., Kumar, M., Kumar, P., & Das P. (2019) Functional analysis protein structure prediction and molecular docking of chitinases produced from *Streptomyces* sp. strain 130 at 60th Annual Conference of Association of Microbiologists of India (AMI- 2019) on Microbial Technologies in Sustainable Development of Energy, Environment, Agriculture and Health organized by Central University of Haryana, Mahendragarh, Haryana, India.

Khosla Gupta, C. and Chowdhuri, A. Addressing issues of environmental pollution by initiating a paradigm shift in scientific temperament at the grass-root level of primary school education at International Conference on Education 2019 (ICEDU 2019) Kuala Lumpur, Malaysia, April 5-7, 2019.

Samal, R.R. and Kumar, S. (2019) Biochemical characterization of acetamiprid resistance in laboratory-bred population of *Aedes aegypti* L. larvae at ICCESI 2019, International Conference and the 10th congress of the Entomological Society of Indonesia, Bali, Indonesia.

Saroj, Arora, R. and **Bajpai, U.** (2019) Isolation & characterization of mycobacteriophages and assessment

of their potential to inhibit/disrupt biofilm at International Conference on Bacteriophage Research and Antimicrobial Resistance Vellore Institute of Technology, Vellore, Tamil Nadu, India.

Uday, A. and **Dhawan, G. (2019)** Computational analysis of natural antagonists for design of anti-thyroid drugs at Young Scientist Conference, IISF-2019, Kolkata.

National/International MoU Signed

International:

MoU was signed between Acharya Narendra Dev College and Creative Commons and ANDC is affiliate of Creative Commons in India since 2013. It's of Creative Commons Global Network (CCGN) membership was reinstated in 2018 and it is continued in the current academic year.

ANDC since 2010 continues to be active member of SPIE (Society of Photo-Optical Instrumentation Engineers, USA) Students' Chapter. The SPIE student members have been working to develop projects, kits and activities, which can be employed to improve the effectiveness of outreach activities.

National

This year the College has signed a MoU with PhiXGen Pvt. Ltd., a firm established on January 30, 2018 in Gurugram, Haryana. The primary aim of the MoU is to explore activities of mutual interest that endeavor to advance research and improving bioinformatics skills and its responsible application worldwide. Its mission is to empower students by giving them exposure to cutting-edge areas of education and research.

MoU was signed between Acharya Narendra Dev College (ANDC) and Translational Health Science and Technology Institute (THSTI), Faridabad for Science Setu programme in 2018-19 academic year. It got extended for academic Year 2019-2020. The programme has been initiated to bridge the gap between classroom Science teaching and research. Scientists from THSTI will actively share their research interests with undergraduate students and will provide opportunities to students to work on short-term projects at THSTI under their guidance.

SWAYAM NPTEL Local Chapter was established in ANDC in 2019 and 466 students and faculty from different departments of the college registered for various online NPTEL courses courses.

Placement Details

Number and Percentage of Students Placed: **65 (17% of students appeared)**

Number of Companies/Industries visited for Campus Recruitment: **05**

Extension and Outreach Activities

NSS volunteers successfully completed Swachh Bharat Summer internship programme 2018, launched by the Ministry of Human Resource Development in association with the Ministry of Drinking Water and Sanitation. College observed 'Swachhta Pakhwara' in the fortnight of 1 to 15 September 2018 as directed by Ministry of HRD through University of Delhi. NSS unit participated in this *Swachhta Pakhwara* and 177 volunteers contributed around 1000 working hours in the whole fortnight working in the entire Giri Nagar, Delhi. NSS unit of ANDC organized cleanliness awareness drives in the adopted villages on weekends. Volunteers visited villages of Zamrudpur, Govindpuri, Khanpur and Kotla. Dramatics Society, '*Dhwani*' organized *Nukkad Natak* entitled '*Hawabaazi*' in the areas near the college and villages adopted by NSS unit of ANDC on 9 September 2018. Voter's registration camp - special summary revision of Photo Electoral Rolls Intensive Nature -2019, was held at Acharya Narendra Dev College, on 27 and 28 September 2018 as directed by Chief Electoral Officer, Delhi through DU NSS Centre.

The NSS unit observed *Swachhta Pakhwara* for August 01-15, 2019. From August 6-8, 2019, a cleanliness awareness campaign (door to door) was done in the adopted villages at Okhla, Zamroodpur, Kotla and Khanpur. On August 9 and 10, 2019 a cleanliness drive with the help of local residents was carried out in the adopted villages. On August 13, 2019 a *Swachhta* Awareness rally was held in Giri Nagar, the area adjoining the college.

Eco Club '*Paritantra*' has initiated 'Plastic Recycle and Reuse Movement'. Under this initiative we requested each and every student to throw all the plastic bottles in the separate dustbins placed near the canteen and the sports ground that were given to NSS volunteers to make the best out of waste.

ANDC Theater Society *Dhwani*'s street play bagged the first position at IIIT Noida, IBS Gurgaon, Jesus and Mary College. It won the third position at IIT Ropar and IIT BHU. Also mime, *मौन (Maun)* by *Dhwani*, won the first prize at IIT BHU, and at Aravali College.

Library Development

The library started its new venture of Open Library on January 27, 2020. In this system Students themselves will borrow and return the books. Many teachers and students have donated books for the open library. A two-day Annual Book Exhibition from September 19-20, 2019 was held in the college library for the faculty and students. Approximately 700 new books were added to the library this academic year.

Faculty Strength

Permanent: 71 (70 Faculty + Principal)

Temporary: 02

Ad-hoc: 55

Financial Allocation and Utilisation:

Grant Sanctioned (in INR):

Recurring INR 33,96,28,649.24/-

Non-Recurring INR 1,15,61,533/-

Grant Utilized (in INR):

Recurring INR 37,31,60,645/-

Non-Recurring INR 35,41,602/-

Other Significant Information

Faculty members viz. Dr. Monisha Khanna Kapur, Dr. Sarita Kumar, Dr. Urmi Bajpai, Dr. Sunita Hooda, Dr. Amit Garg, Dr. Udaibir Singh, Dr. Sharanjit Kaur, Dr. Vibha Gaur, Dr. Seema Makhija, Dr. Gagan Dhawan, Dr. Sadanand Prasad, Dr. Chaman Singh, Dr. Laxmi Narain, Dr. Ravi Toteja, Dr. Charu Khosla Gupta and Dr. Arijit Chowdhuri are recognized Ph.D. research supervisors from University of Delhi. Faculty member Dr. Manoj Kumar Garg, was awarded with Ph.D. Deg by the Department of Modern Indian Languages and Literary Studies, University of Delhi in February 2020 and Ms. Anuradha Sarin got registered for Ph.D. Program in Department of Commerce, Delhi School of Economics in 2019.

One Post-doctoral fellow, one Research Associate and 28 Ph.D. research scholars and one Project Assistant

are currently enrolled in ANDC in six different departments. This year one student has submitted the thesis. Also seven students from various Universities/Institutes (other than University of Delhi) completed their short-term research project under ANDC faculty.

The college offers 'ELITE Scheme' (Education in a Lively Innovative Training Environment) under which ANDC students undertake short research projects during summer vacations (two months). College provides them with a fellowship of INR.1,000/- per month. In summers of 2019, 88 undergraduate students worked under the ELITE research projects.

In 2019-2020, Seven ANDC faculty members authored text books/contributed chapters in books/reviewed text books, three faculty members uploaded educational e-content on web and four faculty members were resource persons in workshops dealing with review and update of syllabi, school text books by NCERT and Teachers training workshops.

The undergraduate students of the college continue to be a part of CUBE program of HBCSE, TIFR, Mumbai; a program of networking college teachers and students with research scientists across the country to transform undergraduate science education in biology. The 'Think Lab' has been developed, a space only for students to conduct research through addressing state-of-the-art scientific questions by using simple, cost-effective model systems, collaboratively

ADITI MAHAVIDYALYA

Major Activities and Achievements

In today's time when the amelioration of the status of women has become the prime priority of the task of nation building, Aditi Mahavidyalaya has taken long strides in the field of higher learning. On the academic front in the current year the college moves a step ahead with the approval of two sections each for B.Com (Hons) and B.Com from University; financial approval is pending with Delhi Govt.; IGNOU Centre has been established and a Legal Literacy Short Term Course by DLSA has been approved. Solar Panels have been installed, open Gymnasium facilities have been made available, Complete Library Automation was initiated besides the construction of an amphitheatre and two media labs with acoustics. The best practices of an institution are those that define the vision and mission which takes the college forward at all levels. Aditi Mahavidyalaya, organized a U.G.C. sponsored National Conference titled 'Revamping higher education for girls in India by exploring possibilities through innovative teaching techniques – Beti Bachao Beti Pado perspective' on 28th August, 2019 in collaboration with the C.P.D.H.E. Talking of the green initiatives, a UGC National Conference on "E-waste management and Swachh Bharat Abhiyan" was organised on 10th April, 2019 at Department of Environmental Studies, University of Delhi. The college building was offered as a quarantine center to CRPF to aid the state government in facilitating health services amidst COVID 19 crisis.

Students with Distinctions

Pooja Siwatch of B.El. Ed , IV year secured 1st rank in University.

Ojsvi Sharma of B.El. Ed III year secured 3rd rank in University.

Nisha of B.A Prog. I year secured Gold Medal in Kabaddi, South Asian Championship

Kusum of B.A Prog. II year secured Gold Medal in Yoga, International Yoga Sport Championship

Publications Total Number : 09

Ritu Sharma. (2020) Functional status, social support and quality of life as determinant of successful aging. *Journal of Gerontology & Geriatrics: Research*. 6(1), pp-1041.

Bhawna Rajput. (2020) Sustainable e-Waste Management in India: Challenges & Strategies. UGC Sponsored National Conference proceedings “e-Waste Management & Swachh Bharat Mission” with ISBN 978-93-82122-42-5.

Bhawna Rajput. (2020) Women’s Participation in Higher Education: The Indian Perspective. UGC Sponsored National Conference proceedings on “Revamping Higher Education for Girls in India by Exploring Possibilities through Traditional and Innovative Teaching Techniques-*Beti Bachao Beti Padhao* Perspective” with ISBN 978-93-82122-43-2.

Anu Jain and Hema Gupta. (2020) Women Empowerment : An initiative by the Indian Companies Act, 2013. UGC sponsored National Conference proceedings on "Revamping higher education for girls in India by Exploring possibilities through traditional and innovative teaching techniques- *Beti Bachao Beti Padhao* Perspective" ISBN 978-93-82122-43-2.

Suruchi Singh and Swarn Singh (2020) High order convergent modified nodal bi-cubic spline collocation method for elliptic partial differential equation. *Numerical methods for partial differential equations*. 36(5): 1028-1043.

Journals/Newsletters Published by College

Pravah by Department of Social Work

COM-BYTES by Department of Commerce

Women Times by Women development Cell

Shakti by NCC

Newsletters by Placement cell, Department of Geography, Research Advisory Committee, Sports, NSS

Seminars organized

Ms Anshumala Gupta, Mr Vikas Saini and Mr Hitesh Khatwani from the Joy of Learning Foundation, “Women, Science and Teacher Education”, January 7 to January 10, 2020

Dr. Tasneem Shahnaaz, Associate Professor, Department of English, Sri Auribindo College, University of Delhi “Handling Interviews” on 04 September, 2019.

Dr Anubha Rajesh, Professor, Centre for Early Childhood development and Research (CECDR), Jamia Millia Islamia, “Laws for Protection of Children’s Interest”, 4 September 2019

Anjan Joshi, expert, NGO-SPACE, “Opening Horizons to the Third Gender”, 24 September, 2019.

Mr. Ravinder Bhatia (Assistant Professor, Banking and Finance, Asia Pacific Institute of Management, Delhi), “Discover an Entrepreneur in You”, on 19 September, 2019

Conferences Organized

“E-waste Management and Swachh Bharat Mission” was organized on 10 April, 2019 and sponsored by UGC.

“Revamping Higher Education for Girls in India by exploring possibilities through traditional and innovative Teaching Techniques-Beti Bachao Beti Padhao Perspective” organized on 28 August, 2019 and sponsored by UGC.

“Indian Value systems in Indian Family” was organized on 15 and 16 November, 2019 and sponsored by UGC and ICSSR

“Yoga and its Potential to Heal the Planet” organized on 28 and 29 January 2020, sponsored by UGC

“Gandhian Vision and Environment” organized on 6 and 7 March, 2019 by Eco club and Gandhi Bhawan

National/International MOUs signed

YWCA for short term courses on Skill Development

NBT for Certificate Course on Publication

DLSA for short term course on Legal Literacy

Green-o-tech for Waste Paper Recycling

Students under Exchange Programme

Cultural Exchange Programme with Sikkim organised under EK BHARAT SHRESHTA BHARAT initiative with a team of 21 students and 5 teachers.

A training and certification course on food safety awareness ‘Basic Manufacturing’ was organized on 20 and 21 February, 2019 by Food Technology Department wherein 40 students were trained as Food Safety Supervisor.

Placement details

Internships- B.com: 19 students and B.Com Hons.:13 students

02 companies visited for campus recruitment (TATA power ltd., Trakinvest Group)

Extension and Outreach Activities

Field visits and Educational trips serve a twin purpose while at one end there is learning beyond walls and miles, on the other hand they offer a platform for a healthy interaction between the staff and students. The departments of commerce, social work, geography, BHJ and BA Prog organized several educational visits over the year to places across India thereby giving the students an exposure to the outside world beyond the college walls. Among Field Visits and Educational Trips:

32 students visited Vidya Bhawan Society, Udaipur from 29th November, 2019 to 3rd December, 2019 to understand the innovative practices in school education, where students observed the schools in varied socio-cultural context.

Department of Geography organised a long excursion for 56 B.A. Hons Geography and B.El. Ed. Students to Kerala in March, 2019. The main aim of the field work is to develop experience of field research, data collection, using of field instruments and conducting survey and observation. Students investigated the area, local community as well as tourists concerning to their specific objectives related to disaster management and medical tourism.

A rural camp was organised by Social work department organized at Rural Center for Human interests (RUCHI), Solan, Himachal Pradesh from November 10th to 13th, 2019.

Aditi has ensured a green and sustainable environment in and around the campus through several outreach programs like Herbal Garden, Plantation Drives, Workshops and Competitions, Signature campaign 'Say No To Crackers' to sensitize students, teaching and non-teaching staff about the hazardous effects of burning crackers during the festival of Diwali, Compost Machine, Awareness Rallies on Jal Shakti and Awareness Rallies on Swachh Bharat Mission.

Aditians have carved a niche on the map of the university of Delhi by their tremendous efforts .A special mention of our NCC students who participated in several activities such as PM Rally Camps, Swachh Bharat Abhiyaan , Competitions , Guard of Honor.

NSS activities are actively carried out round the year by the volunteers of our college in Educating underprivileged kids from nearby slum areas, Nukkad natak for Awareness about Drug abuse, Swachh Bharat Abhiyaan, Old Age Home Visit, Orphanage Visit, Collection Drives, Road Safety activities, Women empowerment related activities and Health camps .

Infrastructural Development at Aditi reached new heights in 2019-20. Some of the key developments are:

Installation of Solar Panels ; Open Gymnasium facilities have been made available for students and staff members;

New Canteen block comprising of Kitchen, Dining area on ground floor and a hall and additional three rooms on first floor have been added; Block of six class rooms was constructed

Major repairs including parking, road from gate to Principal's office, toilets, concertina coil over boundary wall, SS railing, wall tiles in Labs, electric works etc were undertaken

Complete Library Automation to facilitate research facility in the college for teaching faculties and students was initiated

JIO broadband was made available for uninterrupted internet facility in the college and LAN for different labs;

Opening of A.T.M. and Mother Dairy Booth in the premises is another feather in the cap

Installation of two Commercial grade RO systems to meet the water needs of students

Construction of amphitheatre, two media labs with acoustics and e-tender for the laboratory equipment is under way

Library development

The library automation process was initiated at the beginning of the academic year and is likely to be completed within a week. A reading room equipped with a reference section has been established for the

faculty and students. The college library has been extremely active in providing remote access to e books, e journals and e resources to both, faculty members and students amidst pandemic times.

Faculty Strength

Permanent: 57

Ad hoc: 49

Financial Allocation and Utilization

Grant Sanctioned: Rs. 3.74 crores

Utilized: - Rs 3.7 crores approx

Other Significant information

To ensure physical and mental well-being of the Aditi family several workshops / webinars were organized during the lockdown period. Overall, the college has proactively utilized the lockdown for the academic enrichment of the staff and students alike. Students and faculty members have carried out survey on how the students coping with COVID-19. NSS students are preparing masks and giving to nearby Police Stations for distribution. The college building was offered as a quarantine center to CRPF to aid the state government in facilitating health services . The teaching and non teaching staff immediately geared up to equip themselves by attending ICT workshops to enable better e-connect with the college staff and students . Uploading study materials, filling examination forms was a smooth ride in the electronic mode with the combined efforts of Management staff and Students. Online yoga sessions were especially well taken by the staff and students to keep themselves physically and mentally fit amidst lockdown.

The Placement Cell of Aditi has organized a series of activities over the year, ranging from Skill Development Programs on Financial Literacy to Workshops on Career after graduation for the enrichment of the students. The college has successfully submitted its first SSR for NAAC Accreditation in March 2020. A special impetus has been provided in the direction of maximum quality sports facilities for our sports students. Aditians have been achievers all the way- be it intra or inter college competitions district or state events, national and international championships.

AMAR JYOTI INSTITUTE OF PHYSIOTHERAPY

Major Activities and Achievements

Amar Jyoti Institute of Physiotherapy, University of Delhi is acknowledged nationally as a Centre of Excellence in the field of physiotherapy, for the development of skill and competencies – both clinical as well as academic. Our educational ecosystem is driven by a team of dedicated and talented faculty who work collaboratively, resourcefully and creatively to enhance the academic standards. The Institute offers a Bachelor of physiotherapy-BPT (4 ½ years) and Master of Physiotherapy-MPT (2 years) in two specialties Musculoskeletal Physiotherapy and Neurological Physiotherapy. The college also manages nine specialty clinics– out patient departments that cater to a broad spectrum of patients from all strata of society. Institute completes a successful journey of 20 years and our quest to achieve excellence will continue. All MPT students have presented papers and posters on their research projects at various national conferences held in Delhi. Institute organised an induction programme regarding organ and body donation was organized on 22nd November 2019. Information imparted through this program focused on the various aspects of organ donation, such as types of organ donation, its processing, laws governing related to organ donation, etc.

Honours/Distinctions

Dr. Raju K Parasher attended the 5th Meeting of Board of Studies – School of Medical and Allied Sciences, G.D. Goenka University, in February 2020.

Dr. Jeyanthi S (PT) received Academic excellence award for significant contribution in the field of physiotherapy as an academician and for the continuous valuable contribution in the development and growth of “Physiotherapeutic System of Medicine” at Neuraxis Conference, 2019 held on 22nd September 2019.

Dr. Jeyanthi S (PT) became an editorial board member of the journal “Annals of Physiotherapy and Sports”.

Dr. Sparsh Jain (PT) won first prize in paper presentation titled “Hindi Translation and Cross Cultural Adaptation of SF – 36 Scale” at 8th International Conference of physical therapy, AIIMS 2019, New Delhi.

Students with Distinctions

Ms. Neha Gupta and Ms. Anushka Garg of 1st year secured 1st and 3rd rank in the university.

Mr. Vikalp Mohan Saxena of 2nd year secured 3rd rank in the university.

Ms. Mridula Dua and Ms. Aishwariya Gupta of 3rd year secured 1st and 2nd rank in the university.

Ms. Meenal Jain of MPT 1st year from the Neurological Physiotherapy stream secured the 1st position.

Ms. Shailly Gupta of MPT 1st year from the Musculoskeletal Physiotherapy stream secured the 1st position.

Publications Total Number: 5

Dhavale, S, Singh, S, Parasher, R.K. (2019). Factors Associated with Fear of Falls in Indian Elderly: A Systematic Review. *Indian Journal of Public Health Research & Development*. 10(10), 1062 -1066.

Jahagirdar, S. (2019). A Perturbation Based Balance Intervention for an Octogenarian: A Case Study. *International Journal of Science and Research*, 8(8), 35 – 39.

Jain, A. (2019). Multimodal Rehabilitation in Ataxia Telangiectasia – A Case Report. *International Journal of Scientific Research*, 8(7), 7-8.

Jeyanthi, S. (2019). Prevalence and barriers faced by children with developmental disability living in urban slums of Delhi – A community study. *Indian Journal of Applied Research*, 9(4), 24-25.

Sethi, P. Sharma, M.K. Ahuja S. (2020). Role of early physiotherapy to enhance functional ability in a patient with bipolar latissimus dorsi myocutaneous flap transfer at the elbow – a case report. *Indian Journal of Physiotherapy and Occupational Therapy*. 14(1), 172-179.

Journals

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 4

Research Projects

Dr Jeyanthi.S (PT), Dr. Raju K. Parasher, Dr. Anu Bansal (PT). Funding agency: Society of Indian Physiotherapist; Year/Period: 2019-20; Title: Development and validation of a screening tool to determine the prevalence of urban women predisposed to Polycystic Ovary Syndrome in Delhi; Amount sanctioned: 25,000.

Dr. Kshitija Bansal (PT), Dr. Sampada S Jahagirdar (PT). Funding agency: Self; Year/Period:2018-2020 ; Title: Burnout Amongst Indian Physiotherapy professionals: A cross sectional study

Dr. Kshitija Bansal (PT), Dr. Prerna Saxena (PT). Funding Agency: Self; Year/Period: 2019-20 ; Title: Usage patterns and beliefs about therapeutic ultrasound among physiotherapists in Delhi NCR

Dr. Manjusha Dobhal (PT), Dr. Kshitija Bansal (PT), Dr. Sampada S Jahagirdar (PT). Funding Agency: Self; Year/Period: 2019-20; Title: Challenges faced by Children with Disability to Education: A Case Series

Dr. Jeyanthi S. (PT), Dr. Kshitija Bansal (PT), Dr. Sampada S Jahagirdar(PT). Funding Agency: Self; Year/Period:2019-2021 ; Title: The Physical and Psychosocial Health of adolescent school children in Delhi-NCR

Conference/workshop organized

Workshop Title: Sensory Integration (ASI): Understanding the theory and its application in Children with Cerebral palsy and other Neurological Conditions; Dates: 30th & 31st August 2019; Funding Agency: Self

Seminar/Conference Presentations

Dr. Raju K Parasher was Keynote Speaker on “Integrating Traditional and Modern Medicine for Affordable and Accessible Health” at the DST training program at Amity University, Noida, Uttar Pradesh on 12th February 2020.

Dr Kshitija Bansal (PT) delivered an Invited Talk on “Fibromyalgia: Recent Advances in Physiotherapy Treatment” during Symposium on chronic pain (World Physiotherapy Day 2019) held at Jamia Milia Islamia on 6th September 2019.

Dr.Mansi Mittal (PT) delivered an Invited Talk on “Yoga versus Physiotherapy in driving internal and external balance: Which is more efficacious?” in 5th Annual Conference of Society of Indian Physiotherapists, January 11, 2020, Mumbai.

Dr. Sampada Jahagirdar (PT) presented paper titled “Questionnaire to Determine Factors Associated with Fear of Falls in the Older Adults: Establishing Content Validity and Internal Consistency” at 8th International Conference of Physical Therapy, AIIMS 2019, 22nd December 2019, New Delhi.

Dr. Nidhi Singh (PT) presented poster titled “Effectiveness of BWSTT on Gait Parameters in Children with Spastic Diplegic Cerebral Palsy” at 8th International Conference of Physical Therapy, AIIMS 2019, 22nd December 2019, New Delhi.

Dr. Prerna Mohan Saxena (PT) presented poster titled “Musculoskeletal Pain and Associated Risk Factors in an Urban Population” at 5th Annual Conference of Society of Indian Physiotherapists, 10th January, 2020, Mumbai.

Dr. Astha Jain (PT) presented poster titled “Hindi Translation and Cross-Cultural Adaptation of International Physical Activity Questionnaire- Short Form” at 8th International Conference of Physical Therapy, AIIMS 2019, 22nd December 2019, New Delhi.

Dr. Sparsh Jain (PT) presented paper titled “Hindi Translation and Cross-Cultural Adaptation of SF – 36 Scale” at 8th International Conference of Physical Therapy, AIIMS 2019, 22nd December 2019, New Delhi.

Dr. Tanya Gujral (PT) presented paper titled “Effect of Moderate Intensity Resistance Training with Blood Flow Restriction on Muscle Strength and Girth in Young Adults – A Pilot Study” at 8th International Conference of Physical Therapy, AIIMS 2019, 22nd December 2019, New Delhi.

National/International MoUs Signed: 1

With Indian/Foreign Universities: 1(University of Zealand, Denmark) Training offered: Clinical Training for a period of 10 weeks

Students under Exchange Programme

Period of 10 weeks, Clinical training

Extension and Outreach Activities

Number of camps organized in the surrounding areas - 4 camps

Number of people enrolled/covered in the camps - 60 to 100 People in each camp

Number of students who worked in the camps –Six (6) students in each camp.

Total number of hours dedicated to these camps – 4 to 5 hours for each camp.

Library Development

Total budget : Overall - Rs. 1,46,972 .00

Number of books added : 29

Physiotherapy related Journals subscribed to: 6

Faculty Strength Sixteen (Fourteen Academic and Two Clinical)

ARYABHATTA COLLEGE

Major Activities and Achievements

Construction Work on the new Academic and Administrative blocks has been completed up to four floors. Work towards the provision of a new electric sub-station and of a sewage treatment plant has also been initiated. In addition to regular repair of furniture, we have managed to create new furniture in-house for the first time in the form of podiums for all the classrooms. Expansion of Students' Facility Centre has also been done by creating the "Teen Dukaan" vending area with three shops and a workspace for infrastructure repair and renovation. Two shops were put into operation serving snacks and fresh juices. A printer, copier and stationary shop is yet to become operational.

Honours/Distinctions

Prof. Manoj Sinha was awarded the 'Golden Aim Awards' for Excellence and Leadership in Education by Dynergic Business Solutions and a 'Certificate of Appreciation' by Gandhi Bhawan, University of Delhi for promoting Gandhian Ideas and Philosophy on the occasion of 150th Birth Anniversary of Mahatma Gandhi.

Dr. Priti Jagwani was awarded the 'Indira Parikh 50 education women Leader' Award in July 2019 by World Education Congress.

Shri. Binoy Bhushan Agarwal was the 'Returning Senior Judge for the 2019 Queen's Commonwealth Essay Competition', London.

In Senior Netball National Championship held in Chhattisgarh, Meghna Prasad won the Gold. In Delhi University Inter College Gymnastic Championship, Yogesh brought home the Gold. Many of our students won Bronze and Silver in various categories that added to the prestige of our College.

Students with Distinctions

Ms. Ankit Sharma of B.Com. 3rd year.

Ms Ruhani Nnadwani of B.Com. (Hons.) 3rd year.

Mr. Sandeep Kumar of B.A. (Prog) 3rd year.

Mr. Sumit Gupta B.A.(H) Business Eco 3rd Year

Ms. Sakshi Sharma B.A.(H) English 3rd Year

Publications

Surajit D. (2019) "Livelihood Prospects across Social Classes in Rural India" *Social Change*, 49 (2).

Mangalam B. (2020) Preface, Kisses at Daybreak. Trans. R. Abilash Chandran .Chennai: Uyirmmai Publications.

MangalamB. (2019) "Writing auto/bio/graphical narratives: Gandhian vs Ambedkarite modules" *Claiming the I. Autobiographies from Across the Spectrum*. Ed. Meenakshi Malhotra. Delhi: Worldview.

Kumar K. and Multani A. (2020)*Childhood and Traumas: Narratives and Representations* 1st Edition, Routledge India. ISBN number 978-1-13-861192- 4.

Singh J.K.Changing Landscape of Corporate Governance & Corporate Social Responsibility, National Press Associates New Delhi. ISBN No: 978-81-944303-7-7.

Journals

Published by the College: 2 (1. *Srijan*, 2. *The Bottom Line*)

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 4 (2 each)

Seminar organised

Dr. Alexandra Verini,(PhD, University of California), Assistant Professor, Ashoka University, "Pilgrimages and Crusades: Medieval Travel and Religion", 7 February 2020

Dr Siddharth Pandey, (PhD Cambridge University), Visiting Fellow, Yale University, Discussant. 7 February 2020

Dr. Alexander Phillips, (Ph.D Cornell University) Assisting Professor, Ashoka University, "Warmer Climes: Tourism, Migration, and the Venetian Atmosphere in Thomas Mann's *Death in Venice* and Amitav Ghosh's *Gun Island*" 7 February 2020.

Mr. Raman Bhatia, Managing Director, Servotech Power Systems Limited, 'Live Project Integrated Marketing Communications for IOT, 21 August, 2019.

हरिराम मीणा, प्रसिद्ध लेखक, "आदिवासीसाहित्यकीविकासयात्रा" विषयपरव्याख्यान', 23 अक्टूबर 2019.

Seminar/Conference Presentations

B Mangalam, "Revolution and Restoration: New Monarchy, New England" at National Conference at ARSD College, University of Delhi on 14 February 2020.

Kamayani Kumar, “Jallianwala Bagh: Gaps in the Discourses of the Colonizer and the Colonized” in a National Conference organized by Department of Humanities and Social Sciences, IIT Chennai 2-4 October 2019.

Surajit Deb: ‘Gender Differences in Well Being: An Evaluation of CIS Countries’, at the Special International Association for Research in Income and Wealth and Higher School of Economics (IARIW-HSE) Conference on Experiences and Challenges in Measuring Income and Wealth in Eastern Europe and CIS Countries, Moscow, Russia, Session: 6A: Well-being, 17-18 September 2019.

J K Singh: Invited as Keynote lecture on ‘Entrepreneurship’ at Kirori Mal College, University of Delhi on 28 January, 2020. Presented ‘Impact of Environmental, Social and Governance issues on Shareholders’ Wealth’ at National Seminar organized by Shri Krishna Govt. College, Kanwali.

Dev Prakash Mishra: ‘विश्वरंग’ at "साहित्य: दृश्यश्रव्यमाध्यमएवंसोशलमीडिया", International Seminar, Tagore International Literature and Arts Festival, Rabindranath Tagore University, Bhopal (MP), 10th November 2019.

Promila “गांधीवाद और दुख मोचन” राष्ट्रीय सेमीनार, आत्माराम सनातन धर्म महाविद्यालय, नई दिल्ली, 16 अक्टूबर 2019

Other Inter-Institutional Collaboration: The College collaborated with Shaikshik Foundation and Deshbandhu College organized a two day international conference on ‘Human Rights’.National and International Issues and Challenges, 22-23 February, 2020.

Placement Details

Number and percentage of students placed: 39 %

Number of Companies visited for campus recruitment: 11

Extension and Outreach Activities

Debating society hosted the Zero Hour competition, a workshop on Parliamentary Debate, “Pratavaad 2.0”- its Annual Bilingual inter college conventional debate competition- all of which proved to be hugely successful.

ENACTUS Aryabhata participated in various inter-college B-plan competitions. Keeping true to its spirit, it won top positions and awards in a row for their innovative projects thereby further cementing its place in the DU circuit and elsewhere.

The **adventure society** organized two Himalayan expeditions during the year. One in Bhatwari district of Uttarakhand where 23 participants trekked 6 days from Barsu village to the hot springs at Gangnani crossing over the Gidara bugyal (high altitude meadow).

The second expedition was a winter snow trek to Nagtibba near Mussourie followed by a day-long adventure activities camp. The 60 participants successfully completed the expedition from 26 February to 1 March 2020.

Special lectures series

Enhancing the overall quality of education and academic life are an array of programmes that transcend departmental boundaries. Thus some of the events had the entire college faculty participating in it to create a more holistic environment. Currently in its third year the Special Lecture Series hosted lectures on a range of topics with international faculty members and authors from international institutions like Aarhus University in Denmark, Ashoka University etc.

Addressing the emergent needs of the time, the Training Team of Aryabhata College conducted a One Week On-line Faculty Empowerment Program on “eTools for Online Teaching” as an in-house workshop to facilitate teaching using ICT tools. The workshop included hand-on sessions in Google Meet, G-Suite products, Google Drive and its shortcuts, Google Classroom, Online assessment tools and Open Education Resources.

Rangmanch

Streetstruck is the annual street play competition organized by ‘रंगमंच’, the dramatics society of the college. Its 6th edition had nostalgia as its theme. Himmat Singh Negi, a profound theatre artist and television personality along with Shekhar Kanwat, alumni of Aryabhata College and a student at National School of Drama graced the event with their experience and knowledge about the craft while judging the competition. Among its many achievements, *Rangmanch* was awarded with first position in both National Theatre Festival and in Annual Street fest and found Special Mentions in quite a many events.

Library Development

1128 books have been added to the Library Collection. Library is also subscribing to the NLIST services for online access of the e-books and e-journals.

Faculty Strength

Permanent: 53

Adhoc : 42

Financial Allocation and Utilization:

Grant sanctioned in Rs. 37,91,06,000/-.

Utilized in Rs. 25,68,48,489/-.

Any other significant information

Nibs & Brushes, organized a variety of events and introduced novel projects. It released a customized Aryabhata College Calendar 2020, for the very first time, which found much appreciation.

The society was also instrumental in facilitating the making of a Documentary Film on Aryabhata College when Doordarshan expressed its interest in doing so as part of its TV series titled ‘Campus se’; the episode provides a wonderful peek into how the College came to be what it is today.

BBE department organized an industrial visit to Parle Agrovet Factory in Bahadurgarh, Haryana on 13 February 2020.

Rangmanch won the First Position in National theatre festival (*Udaan Utsav*) and in Annual street fest of Ram Lal Anand college (*Itija*)

Best Direction Award to the team and Rishabh Singh as best performer in Annual street fest of RDIAS (*Badlaav '20*).

The Department of Computer Science successfully completed the Add-on courses on Microsoft MOS Certification Exam in association with ATS Pvt Ltd. A Microsoft – AEP (Authorized Education Partner).

The Add-on Courses Cell successfully conducted the following Skill Enhancement Courses:

Advance Program in Financial Modeling

Advance Skill Programme on Financial Markets

BANKERNEL-CIBOP

Personality Development Course

Japanese Language Course

ATMA RAM SANATAN DHARMA COLLEGE

Major Activities and Achievements

The college was ranked 13th in college category which shows its dedication towards the overall development of its stakeholders. College campus was declared as an Eco-friendly campus due to its lush green open area, tree census, herbal garden, bamboo classrooms, paper waste disposal systems, rain water harvesting and paper recycling, to name a few eco-friendly practices being followed. As per the recent India Today ranking of Arts, Science and Commerce colleges in India, the college was ranked 12th among for Commerce, 14th for Arts and 16th for Science. The College was also ranked 6th in Govt. Colleges with the lowest course fee in Commerce Stream.

Honours/Distinctions

Dr. Gyantosh Kumar Jha, Principal, ARSD College got Tilka Manjhi Rastriya Samman, 2019 on 22nd September, 2019 from Ang Madad Foundation, Bhagalpur, Bihar.

Dr. Om Prakash Yadav, Assistant Professor received Commendable research award 2020 for his contribution in the research.

Dr Syed Mubin Zehra Assistant Professor Department of History was part of the delegation who met USA Assistant Secretary of State Madam Marie Royce at New Delhi during her visit to India in January 2020.

Dr Syed Mubin Zehra Assistant Professor Department of history was selected as the only Indian among 21 other countries of the world for 2019 Multi Regional Project on 'Let Leaders Lead - IVLP Exchange Alumni Advance Interfaith Relations,' sponsored by the US Department of State held from Sept 16-27, 2019 in USA. She represented India in this International programme.

Dr. Jyothsnaphanija Bolla, Assistant Professor, Department of English got Uttama Kavitha Puraskaram for her poetry.

Ayush Bhardwaj, B.A.(Hons.) Political Science, 3rd Year achievements as follows:

He won a SILVER and a BRONZE medal in U-21 triples and singles category respectively at the 3RD edition of Khelo India Youth Games, Guwahati 2020.

He is captain of the Delhi state team heading a squad of Ten and has won a scholarship of Rs 1.25 lakhs.

Participated in 7th National and 3rd Under-25 Lawn Bowls Championship in Fours and Triples category.

Sunhit Bishnoi, B.A.(Hons.) Political Science, 1st year, National and International achievements as follows:

T34 position in IGU Eastern India Amateur

T24 position in IGU Karnataka Amateur

T20 position in IGU Southern India Amateur

31 position in NCR Cup Position

4th position in IGU Western India Amateur

Round of 16 position in IGU All India Amateur

T26 position in Singapore Amateur Championship

Manish Bhati, B.A.(Prog.) 1st Year achievements as follows:

1 Silver and 1 Bronze in Inter- College tournament.

2 Gold, 1 Silver, 1Bronze in Delhi state tournament.

Participation with quarter final played in mixed team event Inter- University tournament.

Shivam Kumar of B.A (Prog.) represented Bihar state in

Vijay Hazare Trophy 2019-20.

Syed Mushtaq Ali Trophy 2019-20.

Ranji Trophy 2019-20.

College volleyball girls' team won all India BITS, Pilani volleyball tournament 2019

Students with Distinctions

Avinash Banerjee of B. A. (Hons.) secured first position in University.

Publications

Bhagat, Sunita (2020). 'A concise and regioselective synthesis of 6-bromo-5-methoxy-1*H*-indole-3-carboxylic acid and its derivatives: Strategic development toward core moiety of Herdmanine.' **Synthetic Communications**, Vol.10, Issue 5, pp 749-756

Dixit, V.S (2020). 'An Approach to Secure Collaborative Recommender System Using Artificial Intelligence, Deep Learning, and Blockchain', *Intelligent Communication, Control and Devices*, pp 483-495.

Kumar, Manish (2020), 'Raman and photoluminescence spectral studies in epitaxial Bi₂NiMnO₆ double perovskite thin-film samples', *Optical Material*(<https://doi.org/10.1016/j.optmat.2020.109773>)

Kumar Manish (2020), 'Structural, Energy Storage Analysis and Enhanced Magnetoelectric Coupling in Mn Modified Multiferroic BiFeO₃', *Journal of ELECTRONIC MATERIALS*, Vol. 48, No. 9 (<https://doi.org/10.1007/s11664-019-07370-9>).

Hussain, Abid (2020), 'Y³⁺ doped 0.64PMN-0.36PT ceramic for energy scavenging applications: Excellent piezo-/ferro-response with the investigations of true-remanent polarization and resistive leakage', *Journal of Alloys and Compounds*.

Sadiq, Md (2019), 'Dielectric Relaxation and AC conductivity of TiO₂ Nanofiller Dispersed Polymer Nanocomposite', 63rd DAE Solid State Physics Symposium, AIP Springer Proc.

Kaur, Baljeet (2020), 'Green banking practices of HDFC Bank: A Case study' *Anusandhan- NDIM's Journal Of Business and Management Research* ISSN: 2581-8120

Arora, A.P., (2019), Factors Determining Purchase Intention and Behaviour of Consumers Towards Luxury Fashion Brands in India: An Empirical Evidence' British Journal Of Marketing Studies (BJMS).

Kaura, Ruchika, (2019). 'Arbitrage, Error Correction and Causality: Case of Highly Traded Agricultural Commodities in India' Indian Journal of Finance.

Arora, A.P., (2019), Consumer Attitude Towards Luxury Fashion Brands: A Study of Delhi-NCR, , Anusandhan- NDIM's Journal Of Business and Management Research ISSN: 2581-8120

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 1 Member, Editorial Board: Dr.Gyantosh Kumar Jha Vikalangata Samiksha (Hindi Magazine), since December 2018, published from New Delhi.

Research Projects

Principal Investigator: Dr. Yogesh Kumar; Design and optimization of performance of hybrid capacitors using graphene (nano carbons)/metal oxide nanocomposite electrodes with sodium ion-based electrolytes. Amount Sanctioned:23 lakhs/23 lakhs, Funded by SERB-DST from October 2018 for 3 years (Ongoing).

Principal Investigator: Dr. Raghvendra Pandey; Investigation and development of cost-effective solid electrolyte for ITSOFC applications. Amount Sanctioned:35 lakhs/24 lakhs, Funded by SERB-DST from 27th December, 2016 to 26th December, 2019 (Completed)

Principal Investigator: Dr. Raghvendra Pandey; Study of Novel oxide conductors as solid electrolyte for SOFC Applications. Amount Sanctioned13.3 lakhs/13.3 lakhs, Funded by JSPS (India-Japan joint project) from 2019 (On-going).

Principal Investigator: Dr. Manisha; Investigating the properties of next generation novel nanocomposite thermoelectric materials. Amount Sanctioned: 10 lakhs/8 lakhs, Funded by UGC-BSR start up grant from October 2017(On-going) For 2 years.

Principal Investigator: Dr. Uma Sanjay Singh; Identifying global parameters for quality education: a comparative study of public and private sector universities in India. Amount Sanctioned: 11.8 lakhs/4.5 lakhs Funded by ICSSR from March, 2019 (On-going) 2 years.

Seminar organised

Atma Ram Sanatan Dharma College (ARSD) of University of Delhi organized the second edition of a two-day National Seminar on “**New Trends in Nanotechnology and Applications (NTNA-2020)**” on 6-7February 2020 within the College premises under the Star College Scheme of the Department of Biotechnology, Govt. of India and the College IQAC

The **Ambedkar and Gandhi Study Circles** in collaboration with the Departments of **History and Hindi** organised a two-day National Seminar on *Mohandas Karamchand Gandhi: Society, Politics and Philosophy* on 23-24January 2020. The seminar was sponsored by **ICPR**.

A two-day National Conference on the *History of English Literature* was conducted on 14-15 February 2020. This conference was jointly organized by the Department of English, Atma Ram Sanatan Dharma College and the Department of English, University of Delhi. A grand total of 10 dedicated sessions

Ambedkar Study Circle in collaboration with the departments of History and Hindi organised a two-day National Seminar sponsored by the University Grants Commission on the theme *Kabir and Bhakti Movement* on 19-20 September 2019.

Seminar/Conference Presentations:

Dr. Sunita Bhagat presented “Regioselective synthesis of core moiety of Herdmanine D isolated from marine natural products” at Invited talk in National Conference on Newer Avenues In The Field Of Chemical Science, 14-15 Feb.2020, Skit Jaipur

Dr. Manish Kumar presented “Magnetolectric Coupling In LaSrMnO₃ - BaTiO₃ Nanocomposites” at 2nd International Conference On Energy, Functional Materials and Nanotechnology & Sustainable Environment Management MAY 24-26, 2019 Organized by Nanoscience and Nanotechnology Centre

Department of Chemistry Kumaun University, Nainital-263002 Uttarakhand, India.

Dr. Jyotika Jogipresented ““Simulation of Pentacene/Alq₃ Bilayer OLET to Analyze the Effect of Alq₃ Layer Thickness and Asymmetric Contacts on Device Performance.” at International Conference on Electrical and Electronics Engineers (ICE3), Madan Mohan Malaviya University of Technology, Gorakhpur (U.P.), India, February 14-15, 2020, ISBN: 978-1-7281-5846-4/20/\$31.00 ©2020 IEEE

Abid Hussain presented “Ferroelectric Na_{0.52}K_{0.44}Li_{0.04}Nb_{0.84}Ta_{0.10}Sb_{0.06}O₃ ceramic: Giant piezoelectric response with intrinsic polarization and resistive leakage analyses” at Electronic Materials and Applications 2019-The American Ceramic Society, held during January 23-25, 2019 at Orlando, Florida, USA

Md Sadiq presented “Electrical Conductivity and Dielectric Properties of Solid Polymer Nanocomposite Films: Effect of BaTiO₃ Nanofiller” at 4th International conference, IAET-2020 on 21st- 22nd February. Jaipur National University Jaipur, Rajasthan, India

National/International MoUs Signed

With Indian/Foreign Universities:

National Entrepreneurship Resource And Co Ordination Hub For delivering entrepreneurship education and training BSE Institute Ltd. To launch BSE certified course “Integrated Course on Financial Markets” Certification on “Mastering Stock Market – An Experiential Learning.

Advance Institute of Financial Markets and Research Course on Financial Modelling - Data Analysis with Ms. EXCEL and Understanding of Taxation - GST and its Applications

NSS ARSD & Connecting Dreams Foundation for Connect and Change Programme

Pom-Pom Recycling Pvt. Ltd. For dry recyclable waste pickup

Jagruti Waste Paper Recycling Services To recycle the waste paper

IIT Bombay For acting as Nodal Resource Center for spoken tutorial programme

SDRS New Delhi To carry out promotional activities for empowering students with disabilities

ATS InfoTech Pvt. Ltd. Microsoft- AEP (Authorized Education Partner) For offering Certificate courses recognized by Microsoft Ltd.

Advance Institute of Financial Markets and Research (AIFMR) For add-on courses on: Understanding of Taxation: GST and its Applications; Basic Skill Development Programme: French Language and Financial Modelling-Data Analysis with MS-Excel.

Earth Saviours Foundations To serve underprivileged and to work for protection of environment

Association For Rural and Urban Needy (ARUN) To serve poor and needy in urban and rural areas.

Shri Ram Swaroop Memorial University, Barabanki Common research interest and allied activities

Placement Details

Students Placed: 161

Companies/Industries visiting campus for recruitment: 11

Extension and Outreach Activities

Cleanliness Drive at India Gate- *Annual* withNSS and Swachh Bharat Committee, ARSD College

Blood Donation Camp- *Annual* withNSS in association with Lions Club

An Interactive Session for the People of Adopted Slum with SDMC Officials with NSS

Self-defence Training Workshop in the College for the Female Students- *Annual* with Women Development Cell in collaboration with NSS

Interactive Session with Joint Commissioner of Police and Delhi Police Officials with NSS

Library Development:

The College Library functions as a resource centre for both printed and electronic resources. Apart from textbooks and other reading material, the Library also has a large collection of reference sources, i.e., encyclopaedias, dictionaries, atlases, yearbooks, handbooks, among others. The College Library procured 1045 books, 30 periodicals and 31 magazines in the previous year (2019-20) in various disciplines to fulfil the information needs of the user community. The Library has a vast collection of 1,15,628 (approx.) books and bound periodicals. The Library also received gifts of books from various organizations and faculty members

Faculty Strength: 189

Financial Allocation and Utilization:

Grant sanctioned in 59.76 crores

Utilized in 68.77 crores

BHAGINI NIVEDITA COLLEGE

Major Activities and Achievements:

The Department of Physical Sciences and Sports Sciences organized the Annual Sports Meet and prize Distribution ceremony on 20 February, 2020. An event for Butterfly Count was organized by Environment Department by staff from BNHS on 5 Sep, 2019. The NSS team organized Spiritual Lecture Series on Mediation and Wellbeing. Workshop on Research Paper Writing, Resume Writing and Facing an Interview was organised. Workshop by National Human Rights Commission was held on 29 February, 2020. International Yoga day celebrated by the Department of Physical Education in the College.

First time in college Regional Cuisine Day was organized by the Department of Home Science. NCWEB Orientation Day was conducted successfully. Self Defence Training Camp inaugurated in college for students. The Chemical society of college organized a workshop on “Green Chemistry”. The Swachh Bharat Committee organized different activities during the Swachhta Pakhwada. A Walkathon ‘Beti Bachao Beti

Padhao' was organized by the NSS Unit in collaboration with M/s. Hero Motor Corporation and India Road Safety Campaign, a seminar was organized on 'Road Safety Campaign'. Department of Physical Education and Sports Science organized an adventure walk with nature.

Honours/Distinctions

NSS student of BA Hons (History) BhaginiNivedita College got first prize at district level competition in delivering speech on the topic 'Sabka Saath ,Sabka Vikas , Sabka Vishwas' on the theme Patriotism and Nation Building organized by NYKS at Bharti College on 5th of November 2019 . She was also honoured with a cash reward of Rs. 5000/-

Students with Distinctions

Shruti arya of B.A (P) with a CGPA of 9.18

Muskan yadav of B.Sc. (H) Home SC. With a CGPA of 9.00

Poonam of B.Sc. (H) physics with a CGPA of 9.15

Vaishali roy of B.Sc. (H) Physics with a CGPA of 9.10

Jyoti of B.Sc. Physical sciences with a CGPA of 8.73

Publications

Bharti, 2019 "Buddhist Approach to Education and Sustainable Consumption" in the proceedings titled 'Buddhist Approach to Responsible Consumption and Sustainable Development' Eds. Most Ven., Dr.ThichNhatTu& Most Ven. Dr.ThichDucThien, United Nations Day of Vesak Conference, Vietnam, 2019: 417-427. (ISBN: 978-604-73-3764-4).

Gupta S.(2019). Analysis of Different Domains of Artificial Intelligence.*Engineering and Scientific International Journal*, 6(1),1-5, ISSN: 2394-7187.

Sharma T.T.(2019). Hindustani ShashtriyeVadhya Sangeet keSandharbh me AadhunikPravritiyo ka VaishvikPrabhav.*NaadNartan Journal of Dance and Music*, 8, ISSN 2349-4654.

Nijhawan U. and Seema Gupta S. (2020), Construction Industry to Combat Slowdown in Indian Economy.*Shodh*, 105, 57-71, ISSN: 0970-1745.

Usha Rani U.(2019)"Best Practices in Library Services" a case study of Diamond Jubilee Library University College of engineering, Osmania University in Volume-2, No. 71.

Journals

Published by the College -NIL

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: NA

Seminars Organized

International

An International Seminar was held on 7thNovember,2019 on the topic "The Challenges and Opportunities concerned with Soil and Water Health Sustainability".

The Department of Human Development and Family Empowerment, Home Science organized an International Workshop on 28th January, 2020 on “Spirituality and Well Being”.

International Webinar on “Understanding the Key Aspects of Technology Readiness level in Indian Scenario” on 20th May, 2020 by speaker Dr. Shivendu Ranjan, University of Johannesburg.

National

The Department of Physical Education and Sports Science organized a National Seminar on Sports Sciences and Human Well Being on 17th October, 2019.

A webinar on the topic “Mathematics of Oscillations” was organised by the department on 15th May, 2020. The speaker was Dr. C.K. Ghosh (presently consultant, TLC, Centre of Education Technology, IIT, Kharagpur) who is currently working on the Argument Driven Inquiry Pedagogy for teaching Science.

Mathematics department organized a national webinar on “Numerical Method and Optimizing the Covid-19 lockdown time” on 13-14th May, 2020.

Conferences Organized

Research and Community Engagement cell organised a Virtual Conference/Webinar on International Virtual Conference “VasudhevKutumbkam”: People, Science, Environment and Pandemic (05-07 June 2020).

Department of Physical Education, have organized Five-day program "Yog-Dhara" from 17.6.2020 - 21.6.2020, under the theme "*My life, my yoga*" given by Ministry of AYUSH, 17-21 June (on the occasion of Sixth International Yoga Day).

Placement Details

Student Welfare Committee and Placement Cell organized a seminar on “Job Prospects in Emerging Global Economy” on 27th August, 2019. An expert from Asia Pacific Institute of Management, Delhi delivered the talk which was attended by nearly 150 students.

The committee organized a workshop on “Resume Writing, Group Discussion and Personal Interview” on 4th October, 2019 by the experts of Jagannath Institute of Management (JIMS), Rohini.

The Committee conducted a demonstration for online registration of students at National Career Service (NCS) portal on 31st January, 2020 which was attended by about 130 students.

The committee also approved applications of 88 students for a fee concession and aided to fund a scholarship of 3 students.

The committee mentored the registration of students under Minority Scholarship Scheme of DHE (E-District) whereby 26 students were registered and for NSP - 2 Scholarships 10 students were registered.

The committee interacted with various companies for on campus and off campus placements. “Seller Hub” Company visited college for placement of students of Commerce and selected nearly 18 students.

GMR Aviation Academy campaigned regarding placement and conducted a written test in which as many as 118 students appeared irrespective of their stream. The committee informed the students about various off campus placements, internships and job fair events via notices displayed on the notice boards within the college premises as well as via WhatsApp/email throughout the year.

Extension and Outreach Activities

The Department of Physical Education under Fit India Movement organised event 'ChaloGaon Ki Aur' from 7 – 13 October, 2019 along with the students of BNC and various schools and villages such as Govt. Girls. Senior Secondary, School of Ghumman Hera, Govt. Girls, Senior Secondary School, Kair, Nikhil Vihar Colony, Kair, Khera Village. The objective was to spread awareness and to motivate the children about general fitness and human wellbeing. Mini marathon was organized under Fit India Movement on 12 Oct 2019 for NCWEB students in collaboration with Raise India Foundation. To celebrate this occasion and to boost up the morale of NCWEB students To spread the awareness regarding 'Say No to Plastic', a campaign was initiated to collect jute bags from members of college staff and students. The jute bags collected were distributed among the under privileged residents of Sapera Basti near the college on 21 October, 2019.

Under Research Cell and Community Engagement & Outreach Cell, our college students gained knowledge of school teaching by preparing a lesson plan and teaching Grade 11 and 12 students. They selected various topics as per their assignment and taught the lesson at state run schools near college from 15 – 25 October, 2019. Swachh Bharat Committee organized a Leave Plastic rally at adjoining Sapera Basti on 30 October, 2019.

The Department of HDFE, Home Science organized Children's Day in college lawns and MP Hall on 14 November, 2019. Children from different schools, orphanage and nearby villages were invited to get an exposure to different fun loving and scientific activities. All activities were organized by college students with full enthusiasm. The day was a celebration of childhood and be pure and joyful as children. The event was covered by media.

A Rally was organized from Bhagini Nivedita College to Kair Village for spreading the awareness regarding the importance of Voting in Elections on 22 January, 2020 and the facilities provided to senior citizens and PWD on the day of election.

The NSS students spread awareness to people in their surroundings about the pandemic COVID 19 from 16-March, 2020- 3 April 2020 to follow the government guidelines-Stay Home Stay Safe! Follow Janta Curfew! Stay Home Stay Safe! Several competitions were organized to engage students during the lockdown and to spread the awareness.

Library Development

College library has a collection of 31000 books (Approx.). Number of books added in this academic session is 600 (Approx.). The number of journals and magazine subscribed by library is 44. The faculty and students have access to 14 different newspapers. The library also offers access to one lakh e-books and 6000 e-journals, N- list programme of UGC.

Faculty Strength

Permanent: 40

Adoc: 44

Financial Allocation and Utilization

Grant sanctioned in Rs.23,47,73,000/-

Utilized in Rs.19,17,85,000/-

BHARATI COLLEGE

Major Activities and Achievements

A significant achievement of this year was the start of IGNOU centre for post graduate courses. The Centre has an enrollment of over 4000 post graduate degree candidates and is supported by almost 50 academic counsellors. At present, the Centre offers high-quality teaching through the Open and Distance Learning (ODL) mode in 7 disciplines including, Commerce, Counselling and Family Therapy, English, Economics, Hindi, Psychology, and Political Science.

Another significant achievement was the Participation in the India Today- MDRA Survey of Best Colleges Survey and the securing of Rank Forty-four in Best Commerce Colleges and Rank Sixty in the Best Hundred Arts Colleges of India

Bharati College will also serve as a Project Research Partner for a very prestigious British Academy (UK) funded Research Project. Talks for collaboration with Nurture UK have also been initiated.

Honours/Distinctions

Dr. Vandana Bansal, Associate Professor, Department of Commerce was awarded the Best Teacher Award by the Delhi Government in March ,2020.

Dr Bindu Kohli, Assistant Professor, Department of Political Science, received the award for the Best Coordinator from the Vice Chancellor, University of Delhi for contributions at Gandhi Study Circle, Bharati College on 2 October 2019.

Dr. Shubhra Kathuria, from the Department of Physical Education was appointed as Indian Team Manager for Asia Pacific Lawn Bowls Championship held at Gold Coast,Australia. Under her leadership the Indian team qualified for World Championship 2020.

Dr. Vishnu Shankar, Assistant Professor, Department of Computer Science received the YOUNG SCHOLAR AWARD at International Conference NETCRYPT 2019 held at Jawaharlal Nehru University, New Delhi.

Students with Distinctions

N. Bindiya got selected to represent Delhi in Federation Cup Kho Kho Championship held at Pondicherry

N. Bindia and Kanchan got selected to represent INDIA in the 1st International Test Series Kho Kho held at Bardiya, Nepal. The Team India won the series and were declared Champions

Nidhi- a first year student was invited by the Kayaking & Canoying Federation of New Zealand to participate in New Zealand Series. She made her mark by winning the series.

Advaita, the Western Dance Society attained the **1st Position at Kashiyatra organised by IIT BHU** on 19th January, 2020

Our students Khushboo Sharma and Puja Dubey were selected to represent Delhi for Senior National Air Rifle Shooting Championship held at Bhopal, Madhya Pradesh.

Publications Total Number: 10

Books

Keral J., (2020). *Gender Equality and Political Representation In India*. Reliancebooks.ISBN: 9788175102583

Sen N., (2019). *The Black Woman Speaks: A Study of Flora Nwapa and Buchi Emecheta*. New Delhi: Authorspress. ISBN 978-93-89615-23-4

Research Articles

Bhushan N., (2019) Culture & Personality: A Study of Impulsive Buying Behavior of Indian Consumers. *International Journal of Recent Technology and Engineering (IJRTE)*, 8(38), 467-474.

Bhushan N., (2019). Consumers' Buying Behavior towards the Sales Promotion Tools in Retail Outlets. *Indian Journal of Economics & Business*, 18 (1), 325-341.

Bhutani K., (2019). Foreign Institutional Investors and The Stock Market Movements: The Case Study of The Indian Stock Market. *International Journal of Applied Business and Economic Research*, 17(1), 191-196.

Kumar S., (2019). Impact of GST on Indian economy: Opportunities and challenges. *The Indian Economic Journal: Journal of The Indian Economic Association*, Special Issue.

Shankar V. and Singh K. (2019). An Improved User Authentication Scheme on Smartphone using Dominating Attribute of Touch data. *Journal of Discrete Mathematical Sciences and Cryptography*, 22(8), 1549-1561, DOI: 10.1080/09720529.2019.1695903.

Shankar V. and Singh K. (2019). An Intelligent Scheme for Continuous Authentication of Smartphone Using Deep Auto Encoder and Softmax Regression Model Easy for User Brain. *IEEE Access*, 7, 48645-48654, DOI: 10.1109/ACCESS.2019.2909536.

Book Chapters:

Banerjee A., (2019). "Liminality of Women Entrepreneurs in the Indian Film Industry." Role of Women Entrepreneurship in Socio-Economic Development of India. Ed. Dr.Saloni Gupta.(ISBN No: 9789387633087; NetShop18, New Delhi.)

Das S., (2019). "An Appraisal of State's Role in rehabilitation of Unattached Bengali Hindu Women Refugees Belonging to the Permanent Category " in the book 'Gender and Empowerment: Some Current Issues' (ISBN: 978-93-8895-026-8; SSDN Publishers & Distributors, New Delhi.)

Journals: 01 Name: Arthavaan

No. of College Teachers Serving as Editors: 07

Research Projects:

Funding Agency: SFBTA Research Award Period: 2017 –2019.

Title: Effectiveness of Solutions Focused Brief Theory on Self – Concept, Self – Esteem and Adjustment of Bullied Adolescents.

Amount Sanctioned: \$ 2500 (Twenty-Five Hundred Dollars Only)

Funding Agency: British Academy (Bharati College is a Project Partner, working with a research team of academics affiliated and teaching in prestigious Universities of the UK)

Award Period: 21 months (March 2020- December 2021). The Project has been delayed due to the Pandemic.

Title: Addressing societal gender, geographical location, religious, and caste discrimination through developing a life and employment skills course and accompanying social marketing campaign

Seminar organised

Speaker: Harish Sahu; Affiliation: DRDO ; Title: Cryptography; Date: 26th Feb 2020

Speaker: Dr Ritesh Kumar; Designation: Director; Affiliation: Wetland International; Title: Wetlands for a sustainable Urban future; Date: 22nd April, 2019

Speaker: Prof. Sangit Ragi; Designation: Professor; Affiliation: University of Delhi; Title: History and Polity of Kashmir; Date: 20th September, 2019

Speaker: Dr B. Ramaswamy; Designation: Economist; Title: Skill Development; Date: 17th January 2020

Speaker: Vasvi Bharat Ram, (among a host of other speakers); Designation: National President; Affiliation: FLO, (the Women's wing of FICCI); Title: "Role of Women Entrepreneurs in Socio-Economic Development of India" ; Date: April 26-27, 2019

Conference Organised

PMMMNTT, MHRD "History in the Classroom: Challenges, Innovations and Pedagogic Issues in Undergraduate History Education- II" on 30 October UGC "The Female Voice / Gaze in the Indian Cinematic Imagination" on 4-5 April 2019

ICSSR "Through a (new) Looking Glass: Challenges for Women in the 21st Century" on 9 to 10 January 2020

Seminars / conference Presentation

Mr. Madhav Gopal, Department of Sanskrit, presented a paper 'Cultural Roots of National Integration: Vedantic and Yogic View' in the UGC Sponsored National Seminar organized by SPM College, University of Delhi between July 30-31, 2019.

Dr. Madhuri Sharma presented a paper titled "Quacks, Quackery and Dhanvantari: Quest for Marketing Health and Medicine in India during Twentieth Century", in the National Conference on History of Medicine in Theory and Practice: Health Care in India, 18th & 19th February 2020.

Dr. Roopa Johri presented a paper on the topic, 'Corporate Governance in the Accounting Control System' at IIM, Trichy on 3rd January 2020.

D. Deepti Srivastava presented a paper on "Integral Humanism and Social Justice: Way to Empowering Women in India" in National Seminar on A Discourse on Integral Humanism: Emerging Predicaments of 21st Century and Responses conducted by Gautam Buddha University & Shaikshik Foundation

Dr. Shilpi Sahi presented a paper titled as "Massive Open Online Courses: Understanding motivation and dropouts" in Two Days International Conference on "Corporate Governance: Issues, Challenges and Changing Paradigms" organized by Global Research Foundation for Corporate Governance from 7-8 September, 2019

Dr. Nandini Sen presented a paper "Woman and War: A Study of Flora Nwapa, Buchi Emecheta and

Chimamanda Adichie” at the International Conference titled “Understanding Africa: Continuity and Change on the 11th of February 2020 at the India International Centre, New Delhi.

Dr. Nandini Sen presented a paper titled “Annihilation and Massacre in Marichjhapi as seen in Amitav Ghosh’s The Hungry Tide” in an International Conference titled Paradise on Fire on June 25th 2019 at the University of California, Davis, USA.

Dr. Sangit Sarita Dwivedi, presented a paper on “Environment, Climate Change and Sustainable Development: Prospects and Challenge of Growth Strategy” in International Conference on ‘Climate Change’ in Western Political Science Association Annual Meeting, San Diego, California, USA on 18-20 April 2019

Dr. Sutapa Das presented paper titled "The 'Other'Archive: Unattached Bengali Refugee Women's Narratives of Displacement and Rehabilitation at Kasturba Niketan Home of Delhi at an International Workshop 'Cultures of Archival Research in Germany and India' by the Department of History and Cultural Studies, Philipps University of Marburg at Marburg and Berlin, Germany(15.05.2019-21.05.2019)

Dr. Manju Sharma presented a paper titled "वैश्विक मानवता के संदर्भ में श्रीमद्भगवद्गीताकानैतिकदृष्टिकोण" in an International Conference jointly organised by Gurugram University and Vishwa Hindi Sahitya Sansthan, Canada on 6th December, 2019

National/International MoUs Signed: 1

With Indian/Foreign Universities: 1; MOU with IGNOU - 29/04/2019

With Indian/Foreign Companies/Industry: Nil

Other Inter-Institutional Collaboration

The HDFE Department, Bharati College in collaboration with SARD NGO organized an Indo-Georgian cultural fest on 7th February 2020. In this event, children and youth from Tbilisi, Georgia performed various dance forms to make exchange of talent in India

Chintan- the Debating Society in collaboration with the Youth Group The Secular House organised an Inter University Open Mic session

A workshop on Sustainable Menstruation was organised on 23rd October, 2019 by Palaash- the Eco club of the College in collaboration with Greenspere, IGDTUW and WWF.

The Department of HDFE organized The National CRE Workshop on ‘Positive Parenting: Exploring the abilities of your child’ in collaboration with the Rehabilitation Council of India 4-6th November 2019

One day workshop was organized on ‘Skill India Training’ for the students of the HDFE Department on 15th October 2019 in collaboration with the Skill India Campaign

OPUS - the Placement Cell of the College in collaboration with MTV Get a Job conducted a one-day internship drive in which companies like Ajio, Genpact, HCCB, HCL, Marico, Microsoft, MTV, Swiggy, TikTok, Xiaomi, LinkedIn and Mondelez participated.

Placement Details

Number and percentage of students placed: The job fair organised by the Placement cell witnessed

approximately 70 job seekers in which 40 of them got placed. (57%)

Number of Companies/Industries coming for campus recruitment: 30 approx

Extension and Outreach Activities

As a part of the 'Children with Special Need' practical the 3rd year HDFE students worked extensively with organizations like Aashirwad, DCCW, Handicapped Children's Rehabilitation Association (HCRA) and Children's valley special school. The students provided support to the NGO staff in the functioning of the organization

Bharati students conducted a workshop in New Rajendra Nagar on 17th November, 2019 to educate the residents about waste segregation.

Library Development

The College has a large and well-equipped library stocked with the latest text books, reference books and journals in various subjects and disciplines. The library subscribes to 18 Newspapers in English and Hindi, 17 National and International journals and 13 magazines.

Faculty Strength:

Permanent Faculty: 65

Temporary faculty: 01 Adhoc & Guest Faculty: 61

Financial Allocation and Utilization:

Grant sanction in Rs.= 279,845,535.38

Utilized in Rs.=310,449,425.65

Any other significant information:

OPUS the Placement Cell of the College organised SAMARTH: Internship Fair 2019-20 on 19th October 2019. A total of 20 companies and NGO's visited the campus and offered internship opportunities to the students. The Fair was open to all the colleges across Delhi/NCR. The cell witnessed an active participation of students. Some well-known companies who visited the campus were: Economic Times, Sharekhan, Decathlon, Umeed, etc, offering profiles for HR, Content Writer, Business Development, Management Trainee and many more

Besides the regular students, the NCWEB and SOL Centres of Bharati College have benefited approximately 1100 more students. The Bharati Pariwar has been working unitedly and steadfastly towards transforming the lives of all students who enter their portals.

BHASKARACHARYA COLLEGE OF APPLIED SCIENCES

Major Activities and Achievements

Srijan 2020, Annual Cultural Festival (Intercollege) was celebrated on February 25-26, 2020 and was inaugurated by Smt. Bhavna Gaur (Member of the Delhi Legislative Assembly, Palam). Sixth Bhaskaracharya Intercollege Cricket Tournament was organized from January 9-17, 2020. Six teams from different colleges of

University of Delhi viz. Sri Venkateshwara, Aryabhata, Shyamlal, SGND Khalsa, Kirori Mal along with our college participated in the tournament. Shyamlal college was the winner and Sri Venkateswara college was the runner up of the tournament. Computer science, Electronics, Instrumentation and Physics Departments of the college were included in the Star College Scheme, Department of Biotechnology, Government of India. The college organised 'Divya Kaushal: National Job Fair & Ability Expo' exclusively for especially abled persons, on December 2-3, 2019 in association with the National Skill Development Corporation (NSDC) under the aegis of the Ministry of Skill Development & Entrepreneurship (MSDE), Government of India and Inclusive Divyangjan Entrepreneurs Association (IDEA), New Delhi. Open Gym facility was inaugurated by Ms. Bhavna Gaur, MLA, Palam Constituency on October 25, 2019 to augment our existing sports facilities.

Honours/Distinctions

Dr. Sidharth Sirohi, Department of Polymer Science has been awarded the 'Best Teacher Award' (2019-20) by the Directorate of Higher Education, Govt. of NCT of Delhi.

Dr. Eram S Rao, Department of Food Technology has been awarded National Award (2019-20) by Food Safety Authority of India in the "Professional Category" on the First 'World Food Safety Day'.

Five students of batch 2016-19, Miss Aditi Kanojia, Miss Rachna Sharma, Mr. Gaurav Kumar, Mr. Saumein Sain, and Miss Neema Khushwaha of B.Sc. (H) Biomedical Science, B.Sc. (H) Food Technology, B.Sc. (H) Instrumentation, B.Sc. (H) Microbiology and B.Sc. (H) Polymer Science respectively, received University Gold medal for securing first position in the University during the convocation held on November 4, 2019.

Vikas Kumar of B.Sc.(H) Physics, second year, won Bronze Medal in National Football Championship (5th Small Side) 2019-20 held at Goa from December 30, 2019- January 1, 2020.

Shreya Sharma of B.Sc.(H) Microbiology, third year, won Bronze Medal in Inter College Judo (Women) Championship 2019-20 organized by University of Delhi held on November 5-6, 2019.

Students with Distinctions

Nikita Bansal of B.Sc.(Hons.) Computer Science secured 1st position with a CGPA of 9.68

Aditi Kanojia of B.Sc. (H) Biomedical SC. secured 1st position With a CGPA of 9.48

Bidisha Bhattacharya of B.Sc. (H) Biomedical SC. secured 2nd position with a CGPA of 9.45

Rachna Sharma of B.Sc. (H) Food Technology secured 1st position with a CGPA of 9.45

Rupal of B.Sc. (H) Food Technology secured 2nd position with a CGPA of 9.41

Publications Total Number

Singh, V.K., Kushwaha, C.S., & Shukla, S.K. (2020). Potentiometric detection of copper ion using chitin grafted polyaniline electrode. *International Journal of Biological Macromolecules*, 147, 250-257.

Chugh, B., Singh, A.K., Chaouiki, A., Salghi, R., Thakur, S., & Pani, B. (2020). A comprehensive study about anti-corrosion behaviour of pyrazine carbohydrazide: Gravimetric, electrochemical, surface and theoretical study. *Journal of Molecular Liquids*, 299, 112160. ISSN: 0167-7322.

Singh, P., Chauhan, D., Chauhan, S.S., Singh, G., & Quraishi, M. (2019). Chemically modified expired Dapsone drug as environmentally benign corrosion inhibitor for mild steel in sulphuric acid useful for industrial pickling process. *Journal of Molecular Liquids*, 286, 110903. ISSN: 0167-7322.

Singh, P., Chauhan, D.S., Chauhan, S.S., Singh, G., & Quraishi, M.A. (2020). Bioinspired synergistic formulation from dihydropyrimidinones and iodide ions for corrosion inhibition of carbon steel in sulphuric acid. *Journal of Molecular Liquids*, 298, 112051. ISSN: 0167-7322.

Singh, A.K., Chugh, B., Saha, S. K., Banerjee, P., Ebenso, E.E., Thakur, S., & Pani, B. (2019). Evaluation of anti-corrosion performance of an expired semi synthetic antibiotic cefdinir for mild steel in 1 M HCl medium: An experimental and theoretical study. *Results in Physics*, 14, 102383. ISSN: 2211-3797.

Pawar, A., Jha, P., Chopra, M., Chaudhry, U., & Saluja, D. (2020). Screening of natural compounds that targets glutamate racemase of *Mycobacterium tuberculosis* reveals the anti-tubercular potential of flavonoids. *Scientific Reports*, 10(1), 949.

Yadav, P., Rattan, S., Tripathi, A., & Kumar, S. (2020). Tailoring of complex permittivity, permeability, and microwave-absorbing properties of CoFe₂O₄/NG/PMMA nanocomposites through swift heavy ions irradiation. *Ceramics International*, 46, 317-324.

Singh, P., & Shukla, S.K. (2020). Structurally optimized cupric oxide/polyaniline nanocomposites for efficient humidity sensing. *Surfaces and Interfaces*, 18, 100410.

Kushwaha, C.S., & Shukla, S.K. (2019). Non-enzymatic potentiometric malathion sensing over chitosan-grafted polyaniline hybrid electrode. *Journal of Materials Science*, 54, 10846-10855.

Singh, P. & Shukla, S.K. (2020). Advances in polyaniline-based nanocomposites. *Journal of Materials Science*, 55, 1331-1365.

Journals:

Published by the College: None

Number of College teachers serving as Editors/ Members of Editorial Board: Two

Research Projects:

Dr. Uma Chaudhry & Prof. Bishwajit Kundu (IIT, Delhi); Project Title : Exploring moonlight enzyme, glutamate racemase, of *Neisseria gonorrhoeae* as a target for anti-gonococcal drug discovery; Funding Agency: ICMR; Sanctioned Amount (Rs.): 40.04 lakhs (Total amount) 22.60 lakhs (College component) from 2019-2022.

Dr. Uma Dhawan, project Significance of 5-hydroxymethylcytosine in neurodegeneration associated with rapid eye movement sleep deprivation, funded by SERB-DST; Sanctioned Amount (Rs.): 40.11 lakhs From 2018-2021

Dr. Uma Chaudhry; Project: Use of foldscope for the speed identification of microbial load on fresh produce: An inexpensive and point-of-care solution for screening of microbes; funded by DBT; Sanctioned Amount (Rs.): 8 lakhs from 2018-2019.

Dr. Uma Chaudhry & Dr. Balam Pani; Project : Safeguarding immunity and health versus Indiscriminate use of antibiotics: Building medical awareness and capacity for informed choice through multilevel orientation, exhibitions and demonstrations for students, paramedics, drug marketing systems and community; funded by DST; Sanctioned Amount (Rs.): 22.72 lakhs from 2017-2019.

Dr. Balam Pani & Dr. Manjeet Singh Barwa; Project : Spatial distribution of uranium and associated water quality parameters in groundwater/ surface water in six (06) districts of Uttar Pradesh (Agra, Mathura,

Mahamaya Nagar, Kanshiram Nagar, Etah and Badaun) funded by BRNS, BARC; Sanctioned Amount (Rs.): 29.60 lakhs from 2016-2019.

Seminar organised

One-day seminar on 'Significance of Fortified Food in Daily Life' was organized by the Department of Food-Technology in association with Food Fortification Resource Centre, FSSAI and NETPROFAN on February 21, 2020.

One-day seminar on 'Advancements in Molecular Microbiology in the revolutionary 'Omics' era' was organized by Department of Microbiology on February 20, 2020. The seminar included talks from Dr. Syed Shamz Yazdani, ICGEB and Dr. Vikram Saini, AIIMS.

Prof. K.S. Rao and Prof. Arun Jagannath from Department of Botany, University of Delhi, delivered talks on theme 'Climate change and plant science without boundaries' in the annual departmental fest 'BLOSSOM-II' organized by the botanical society, Phytomics, on February 18, 2020.

Two invited lectures on '*Mycobacterium tuberculosis* vs the host: a seemingly never-ending battle that the world wants the host to win' by Prof. K Natarajan and 'Radioprotectors and Radiomitigators for improving Radiation Therapy in Cancer patients: Strategies to develop small molecules as Therapeutic Agents' by Prof. Vibha Tandon were organized by Department of Biomedical Science during their annual departmental fest on February 6, 2020.

One-day seminars on 'Machine Learning using Python' and 'Careers in I.T after Graduation' was organised by Computer Science department on September 20 and 25, 2019, respectively.

Conference Organised

The Department of Chemistry of the college organised the second National Conference titled 'Clean & Green Energy: The Chemical and Environmental Aspects' on September 26-27, 2019.

Seminars / conference Presentation:

Dr. Uma Dhawan was invited for a lecture titled 'Heavy metals as potential risk factors for amyotrophic lateral sclerosis' at National Conference on 'Emerging Synergistic Trends in Ayurvedic and Biomedical Sciences' organized by Bundelkhand University, Jhansi on February 19-20, 2020.

Dr. Umesh Kumar was invited as a speaker in National Conference on 'Novel Advancement in Applied Chemical Science' held in SS Jain Subodh (autonomous) P.G. college, Jaipur, January 27-28, 2020 and spoke on 'Novel advancements: reference to nanochemistry, polymer and biochemistry'.

Dr. Eram S. Rao was invited as speaker on 'Nutraceuticals and Functional Foods-Emerging Trends and Perspectives' at the Malaysian Palm Oil Board International Palm Oil Congress (PIPOC) held on November 19 -21, 2019 at Kuala Lumpur, Malaysia.

Dr. Anil K. Bali delivered an invited lecture on 'Metabolic engineering to improve production of biohydrogen (Green alternative fuel)' in the second National Conference on 'Clean & Green Energy: The Chemical & Environmental Aspects' organized by Department of Chemistry, in the college on September 26-27, 2019.

Dr. Balaram Pani invited for keynote address at three-day National Seminar on 'Environmental Protection - An Avenue for Better Tomorrow' from September 23-25, 2019 at Seva Sadan's College of Education, Ulhasnagar, Thane, Maharashtra.

Dr. Uma Dhawan was an invited as speaker in the fourth International Conference on 'Innovative Approaches in Applied Sciences & Technology' (iCiAsT-2019) at Kuala Lumpur, Malaysia on June 25-29, 2019 and talked on 'Heavy metal toxicants trigger TDP-43 pathology associated with ALS'.

National/International MoUs Signed

Two MoU signed between the college (Department of Food Technology and PepsiCo India Holdings Pvt. Ltd.

In January 2019-May 2019 and July 2019-December 2019

Placement Details

Number of students selected : 8 (Company Trakinvest for Policy Bazar) and 2 (Company Oswal cable)

Extension and Outreach Activities

An outreach program on 'Use and Applications of Medicinal Plants' was conducted by Garden committee of the college at Prakash Model School, Bindapur, Mahaveer Enclave, New Delhi on February 17, 2020.

The volunteers of NSS cell collected and distributed clothes among the underprivileged on February 2, 2020 near the Palam flyover.

The Computer Science department organised an Outreach programme for girl students of Vandana International School, Dwarka on 'Internet of Things – Latest Trends and Applications' in collaboration with ICT on January 23, 2020.

The NSS Cell organised the collection and distribution of dry snacks and sweets to the students on October 24, 2019 at MCD School, Bindapur.

The NSS Cell also organised 'Door to Door Plastic Collection Drive' and 'Plog (Collecting plastic while jogging) Run' on October 4, 2019. The students collected the plastic waste and properly disposed-off it in the designated dustbins.

BEST (Bhaskaracharya Environmental and Sustainability Taskforce) and Eco-Club organized an 'Environmental Awareness Campaign' at Govt. Co-Ed. school near college on August 28, 2019.

A ten-day Self-defence Training Program was conducted by Women Development Cell of the college for girls and women of neighbouring areas in collaboration with Delhi Police in our college as an Outreach Program from July 2-12, 2019.

Yoga club and NSS Cell jointly organised an outreach activity titled 'Holistic Health & Refreshing Mind Space' for neighbouring residential societies on the occasion of 5th International Yoga Day in association with People's foundation on June 21, 2019 in the college premises.

Two mega outreach activities were conducted by Department of Food Technology in association with FSSAI and PepsiCo India Holdings Pvt. Ltd., were carried out on creating awareness about consuming 'Safe and Nutritious Food' amongst school children. In one activity, January 2019 to May 2019, the focus was on 'Iron' and in the other, July 2019 to December 2019, on 'Whole Grains'.

Library Development

Growth in Collection of the Library

Library has a collection of 27,068 volumes of books (as on 15/04/2020) including reference books, 336 bound volumes of journals and many CDs/DVDs. Apart from the regular subscription to some journals, the library, this year, has renewed its subscription to N-LIST (National Library and Information Services Infrastructure for Scholarly Contents) program of INFLIBNET.

During the year 2018-19, 185 books (out of 695) were withdrawn and written off the Library stocks.

Footfall, Circulation and Overdue Charges

Library Footfall: 21186

Library Circulation – Issued: 6182

Library Circulation – Returned: 5768

Collection of Overdue Charges: Rs. 20395

Future Plan

Self-check-in/check-out system

Library Air conditioning system

Faculty Strength

Regular Teaching Faculty: 46

Ad-hoc Teaching Faculty: 50

Financial Allocation and Utilization:

Grant-in-Aid Sanctioned (Salary) Rs.18,86,00,000.00

Grant-in-Aid Sanctioned (Other than salary): Rs.2,15,16,924.39

Grant-in-Aid Utilised (Salary) Including unspent Balance: Rs. 20,22,44,541

Grant-in-Aid Utilised (Capital Assets) Including unspent Balance: Rs. 43,41,829.52

Grant-in-Aid Utilised (Other than Salary) Including unspent Balance: Rs. 1,93,68,872.43

Any other significant information

A one-day workshop on ‘Reproductive Biology’ for third year students on February 14, 2020. The workshop was conducted by Dr. Reetuparna Basak was organized by the Department of Zoology of the college in collaboration with the research laboratory of Prof. Umesh Rai at the Department of Zoology, University of Delhi.

A lecture by Dr. Anita Aggarwal, Scientist E, Department of Science and Technology, Ministry of Science and Technology, New Delhi was organized by the Research and Project Assessment committee of the college on February 7, 2020.

A lecture on ‘High Electron Mobility Transistors’ by Dr. D. S. Rawal, Scientist-G, Solid State Physics Laboratory was organized by Department of Electronics followed by Alumni Interaction on February 6, 2020 by the Electronics Society ‘SPARKS’ under Electronics Fest, TECHMANIA.

A talk on 'Importance of Higher Education and Career Prospects' by Mr. Raju Giri, AVP Sales, Sunstone Eduversity, Greater Noida, was organised by Department of Computer Science on February 6, 2020.

A Biotic Talk on the topic 'Mother Nature: Gateway to Health and Happiness' was organized by the Gandhian Study Centre on February 5, 2020.

A workshop on 'What after Graduation' was organized by Women Development Cell in collaboration with Electronics society 'SPARKS' on January 27, 2020.

The Training and Placement cell organized event titled 'Let's Talk Future' in association with Pearls Academy on January 20, 2020. Three speakers - Ms. Srishti Bajaj, Mr. Dinesh Abiram and Mr. Gopal Meena discussed various career opportunities with our students.

Yoga club organized a seminar on 'Resolution for Revolution' on January 13, 2020 by H. G. Amogh Lila Prabhu, Vice President, Shri Shri Rukmani Dwarkadheesh Temple (ISKCON), Dwarka.

A Distinguished Alumni Lecture Series (October 2019-February 2020) titled '*Careers in Microbiology and Beyond*' was organised by Department of Microbiology. The series was graced by six alumni who visited the college and interacted with students and faculty. They talked about various career prospects in microbiology and inter-related areas and guided them on how to prepare for the first step after graduation.

A workshop on 'Sensory Science' was conducted on January 22, 2020 in the Department of Food Technology by 'TagTaste', a firm that provides consultancy on 'Sensory Evaluation'. Ms. Raj Prity Sabharwal, was the resource person for the event.

A workshop by Women Development Cell was organized on 'Role of Women in Healthcare Industry' in collaboration with International Institute of Health Management and Research (IIHMR) on January 10, 2020.

A lecture on Gender sensitization by Mr. Praveen, Advocate, Delhi High Court was organized jointly by Gender Sensitisation and NSS cell of the college on October 18, 2019 in collaboration with Special Police Unit for Women and Children, PTS Malviya Nagar, New Delhi.

A two-day lecture series on 'Addiction-free India' was organized by the Anti-Tobacco cell along with Bhaktivinod ISKCON, Delhi, on October 3-4, 2019.

A one-day workshop on 'Immunology' was organized by Department of Zoology for third year students on September 26, 2019. The workshop was conducted by Dr. Alivia Roy and Dr. Reetuparna Basak in collaboration with the research laboratory of Prof. Umesh Rai at the Department of Zoology, University of Delhi.

A talk on topic 'Metrology and its role in improving quality of life' by Shri Satish, Senior Scientist, Electrical and Electronics Metrology Division, CSIR, National Physical Laboratory (NPL) was organized by the Department of Instrumentation on September 25, 2019.

A lecture on 'Embedded Systems' by Dr. Dhananjay V. Gadre, Netaji Subhas University of Technology was organised by the Department of Electronics on September 9, 2019.

One day Inter-college workshop and hands-on-training on 'Intellectual Property Rights' was organized by The Botanical Society, PHYTOMICS on August 26, 2019. Two speakers Dr. Arun Kumar Maurya (Assistant Professor in the Department of Botany, Multanival Modi PG College, Ghaziabad, India) and Ms. Prity Khastgir (Founder and CEO of the Tech Corp International Strategist, TCIS, India) delivered informative talks on the theme.

Lectures by Dr. Ram Mudholkar (Former President, DuPont) and B.K.Vivek Pahwa were organized by the Anti-tobacco Cell on the topic titled 'My Delhi, Addiction Free Delhi' on August 27, 2019

COLLEGE OF NURSING

ARMY HOSPITAL (RESEARCH & REFERRAL)

Major Activities and Achievements

Nurses week was celebrated on 11 May 2019 at Army Hospital (R&R) to commemorate the birth of Florence Nightingale. Maj Gen Annakutty Babu, Ex ADGMNS inaugurated the celebration. A poster making competition was also conducted on the occasion. On the eve of International Yoga Day, ". A Yoga camp was organized in collaboration with Army Hospital (R&R) where students practiced different Yoga postures and meditation under supervision of trained Yoga Instructors. 73rd Independence Day was celebrated at Nursing Cadets' Mess with speech and National Anthem, inter-house group song competition. Twenty-nine graduates were commissioned into Military Nursing Service on successful completion of 4 years B.Sc. (Hons) Nursing Course. A cleanliness drive "Swaachh Bharat Abhiyan was launched by the students of College of Nursing AHRR on the eve of Gandhi Jayanti. The solemn ceremony of Lamp-lighting was held on 04 Nov 2019. Nurses' pledge was taken by the newly inducted nursing students to embark their journey into nursing profession. of the pre-induction program for the 30 first year students. Students of AHRR participated in various competitions of National Youth fest "MTNL Health Mela" at Talkatora Stadium. Students of this college also participated in different intra and inter-college student Nurses Association competitions and brought laurels to the college. Four students represented Delhi state Student Nursing Association at national level in XXVIII National Biennial conference held at Coimbatore, Tamil Nadu. N/C Bhawna Subba Secured III Prize in essay writing competition. "Anwasha – College Day" was celebrated with zeal and enthusiasm in Ayurvigyan Auditorium on 19 Feb 2020. Students showcased their talents by presenting different programs. All the award winning events of inter-house competitions like solo dance, solo song, group dance, group song were performed on the day.

Honours/Distinctions

Lt Col Suman Dhaka completed her PhD in nursing from JJT University, Rajasthan in Child Health Nursing

Students with Distinctions

N/Cdt Parul – secured 6th position in Final Year B.Sc. (Hons) Nursing in University with 78.33% marks in aggregate

N/Cdt Ankita Mitra – secured 77.6% marks in aggregate in Final Year BSc (Hons) Nursing

N/Cdt Anju Yadav – secured 7th position in third year BSc (Hons) Nursing in University with 79.11% marks in aggregate

N/Cdt Bhawna Subba – secured 3rd position in Second year B.Sc. (Hons) Nursing in University with 80% marks in aggregate

N/Cdt Bittu Kumari – secured 8th position in Second year B.Sc.(Hons) Nursing in University with 76.78% marks in aggregate

Publications Total Number: 10

Chugh, B., Singh, A.K., Chaouiki, A., Salghi, R., Thakur, S., & Pani, B. (2020). A comprehensive study about anti-corrosion behaviour of pyrazine carbohydrazide: Gravimetric, electrochemical, surface and theoretical study. *Journal of Molecular Liquids*, 299, 112160. ISSN: 0167-7322.

Kushwaha, C.S., & Shukla, S.K. (2019). Non-enzymatic potentiometric malathion sensing over chitosan-grafted polyaniline hybrid electrode. *Journal of Materials Science*, 54, 10846-10855.

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Singh, V.K., Kushwaha, C.S., & Shukla, S.K. (2020). Potentiometric detection of copper ion using chitin grafted polyaniline electrode. *International Journal of Biological Macromolecules*, 147, 250-257.

Singh, P., Chauhan, D., Chauhan, S.S., Singh, G., & Quraishi, M. (2019). Chemically modified expired Dapsone drug as environmentally benign corrosion inhibitor for mild steel in sulphuric acid useful for industrial pickling process. *Journal of Molecular Liquids*, 286, 110903. ISSN: 0167-7322.

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Singh, A.K., Chugh, B., Saha, S. K., Banerjee, P., Ebenso, E.E., Thakur, S., & Pani, B. (2019). Evaluation of anti-corrosion performance of an expired semi synthetic antibiotic cefdinir for mild steel in 1 M HCl medium: An experimental and theoretical study. *Results in Physics*, 14, 102383. ISSN: 2211-3797.

Singh, P., & Shukla, S.K. (2020). Structurally optimized cupric oxide/polyaniline nanocomposites for efficient humidity sensing. *Surfaces and Interfaces*, 18, 100410.

Singh, P. & Shukla, S.K. (2020). Advances in polyaniline-based nanocomposites. *Journal of Materials Science*, 55, 1331-1365.

Yadav, P., Rattan, S., Tripathi, A., & Kumar, S. (2020). Tailoring of complex permittivity, permeability, and microwave-absorbing properties of CoFe₂O₄/NG/PMMA nanocomposites through swift heavy ions irradiation. *Ceramics International*, 46, 317-324.

Journals:

Number of College teachers serving as Editors/ Members of Editorial Board: Two

Research Projects

AFMRC Projects (Faculty)

Topic – “A study to assess the effectiveness of power-point based structured teaching programme on knowledge regarding breast crawl among nurses of selected quaternary care hospital of a metropolitan city”.
Principal worker – Maj Renjini Gopalakrishnan ; Co-worker - Lt Col Suman Dhaka

Topic- “ A study to assess the effectiveness of art therapy on hospital induced anxiety among children admitted in the selected armed forces Hospitals.

Principal Worker- Lt Col Archana Kushwaha. Coworker: Lt Col Ramhlunmawi & Lt Col Sunita

Topic- “A study to assess the knowledge and practice of occupational health and safety measures among workers working in laundry department of Armed Forces Hospitals.”Principal Worker- Lt Col Seema M Nair

Seminar organised

Conducted by Maj Sandeep on 04.4.19 on Service Etiquettes; Chairperson Lt Col Mary Priya A V, Associate Prof, College of Nursing , AHRR

Conducted by Lt Col Lakshmi and Lt Col Dola Banerjee on 29.5.19 on Management of Head Injury; Chairperson: Lt Col A D Chaudhuri, Associate Prof, College of Nursing, AHRR

Conducted by Maj Yashashwini, Maj Shilpa, Capt Linu and Capt Mamta Bohra on 14.1.20 on Cardiac Temponade; Chairperson: Lt Col Mary Priya A V, Associate Prof, College of Nursing, AHRR

Conference Organised

World Autism Awareness Day –Panel Discussion on 16 April 2019

Breast Feeding Workshop and Panel discussion on 8 August 2019

Seminars / conference Presentation

Lt Col Ajita Datta Chaudhuri attended CME on National Conference of medical editors impact 2019 from 13 – 15 September 2019

Lt Col Dola Banerjee attended CBRN workshop at DRDO Delhi from 17 -20 Dec 2019. She was also delegated for Training of Trainers on simulation based education in SGT University by INC from 18-22 November 2019

Lt Col Mary Priya attended New frontiers in biological sciences-opportunities & Challenges in November 2019.

Lt Col Suman Dhaka participated as Faculty at “8th Annual Conference of Indian Association of Neonatal Nurses” at Bhubneshwar on 09 – 11 February 2020 and presented paper on “Invasive & Non Invasive Respiratory support”. She also presented her research paper “Assess effectiveness of prepared galactogogue mixture among primigravida lactating mothers in NICU setup of a selected tertiary care hospital” and was awarded second best research paper in the conference.

Lt Col Seema Nair attended Training of trainer’s workshop on substance use disorder at AIIMS from 29 Sep - 05 October 2019.

Lt Col Alka Thomas attended a national conference on Ethical & Methodological issues in medical Research on 10 October 2019.

Placement Details

Twenty-Nine students of second batch of B.Sc. (Hons) Nursing course commissioned as Lieutenant in Military Nursing Service on 25 September 2019

Extension and Outreach Activities

School Health Programme at Govt Primary School Najafgarh by III year B.Sc. (Hons) Nursing Cadets in the VI semester in February 2020

All students participated in “Awareness campaign for prevention of substance abuse in community on account of World Mental Health Day celebration in October 2019.

Library Development

Total No of Books in College of Nursing : 5114

Total number of books in Army Hospital (R&R) library : 10000

Faculty Strength

Total Faculty : 26

Ad-hoc Faculty : 03

Financial Allocation and Utilization

Grant sanction

Obligatory- ACG : Rs 33, 45,564/-

Non-Obligatory (TTEIG & ACG): Rs 40, 61,000/-

Utilized – 100% utilized

Any other significant information:

College of Nursing Army Hospital (R&R) conducts six Post Basic Diploma Speciality courses in Nursing along with B.Sc. (Hons) Nursing which are recognized by Indian Nursing Council under the aegis of DGAFMS. Indian Nursing Council has approved the syllabus on Haematology Nursing including Stem Cell Transplant and Post Basic Diploma in Burns Nursing developed by the college. The two programs would commence after the inspection of Delhi Nursing Council and Indian Nursing Council.

COLLEGE OF ART

Major activities and achievements

College organized the Annual Sports Meet at CWG Village Sports Complex, Near Akshardham Metro Station, New Delhi on 6th March, 2020. Annual Educational Study Tour 2019-20 was organized from 24th January, 2020 to 6th February, 2020 for the BFA students of III Year and IV Year specialization classes of the six disciplines to visit Khajuraho, Bhopal, Fardapur, Ajanta and Ellora [Tour Incharge: Sh. B.M.Sharma. Two days workshop for the students of Printmaking on water based serigraphy was also organized with renowned printmakers Mr. Dattatreya Apte and Ms. Kavita Nayar on 17th and 18th October, 2019. College participated in the Annual Art Festival, Sangam-2020, Confluence of Art for two days (28th February, 2020 & 1st March, 2020) under Sh. Ashok N Ninawe, Associate Professor, Nodal Officer. The Exhibition (selected works of BFA & MFA students were displayed) were inaugurated by Sh. Ram Vanji Sutar, Padma Bhushan on 10th April, 2019 and continued till 15th April, 2019. Sh. Sheo Pratap Singh, IAS, Secretary, DTTE, Sh. Sarpreet Singh Gil, IAS, Director, DTTE, Sh. Krishan Ahuja, Eminent Artist (Alumnus, Applied Art 1966 Batch) and Sh. Adwaita Gadanayak Director General, National Gallery of Modern Art, New Delhi were the guests of Honour.

Students with distinctions

Pragya Jain of BFA-Applied Art (Final Year) secured 1 position.

Pallavi Bora of MFA-Applied Art (Final Year)secured 1 position.

Sunandita Bandhu of MFA-Printmaking (Final year)secured 1 position.

Masoom Pincha of BFA-Art History (Final year)secured 1 position.

Padmini Tudu of MFA-Applied Art (Final Year)secured 1 position.

Students Placement Details

Number of students getting successful placements : 27

Number of Companies/Industries coming for campus recruitment : 12

Many advertising Agencies, Art studios, Publications Houses, NIIT,

Art Galleries, Govt. Agencies & PSU's take students for placement.

Number of repeat recruiters : 03

Library Development:

Total budget: Rs. 4 lakhs

Number of books added: 179

Journals subscribed: 25

Number of faculty

Permanent: 13

Financial Allocation and Utilization

Grant sanction in Rs. 13,19,00,000/-

Utilized in Rs. 9,04,95,980/-

DAULAT RAM COLLEGE

Major Activities and Achievements

Daulat Ram College which was established in 1960 has completed 60 years of its existence. Today it is one of the leading women colleges of India. In 2020 it has been given 26th Rank of excellence by National Institutional Ranking Framework (NIRF). Its science stream has been ranked 7th, Commerce is ranked as 13th and Humanities is ranked as 15th by India Today in its National Ranking in 2020. This year Ms. Nasreen of BA (Program) III year brought laurels to the country and college when she and her team bagged gold medal in the XIIIth South Asian Games in Kathmandu, Nepal. The college placement is steadily improving its placements each as this year 72 students were placed on campus. The year saw appointment of 14 multitask staffs (Lab attendants), one Sr Technical Assistant and promotion of eight staff at various levels after a gap of more than a decade.

Honours/Distinctions

Dr Savita Roy, Principal, appointed as Visitor's Nominees to Manipur Central University.

Dr. Savita Roy, Principal, was given Excellence Award, Gandhi Bhawan, DU on 2nd October 2019

Dr. Savita Roy, Principal, Excellence Award for Inculcating Spirit of Reuse, Refuse and Recycle, Ministry of HRD and Pandit Deen Dayal Upadhyay Smriti Manch (Government) 25th September 2019

Dr. Savita Roy, Principal, Green Earth Award on the World Environment Day,

Pandit Deen Dayal Upadhyay Smriti Manch, Jivitesh Foundation and Ministry of Environment Forest and Climate Change (Government) Contribution to environment upkeep, 3rd June 2019.

Dr. Sarita Nanda, Associate Professor, Department of Biochemistry, Excellence Award 2019, Ministry of HRD and Pandit Deen Dayal Upadhyay Smriti Manch (NGO) 25th September 2019

Dr. Sarita Nanda, Associate Professor, Department of Biochemistry, Green Earth Award on the World Environment Day, Pandit Deen Dayal Upadhyay Smriti Manch, Jivitesh Foundation and Ministry of Environment Forest and Climate Change (Government) Contribution to environment upkeep, 3rd June 2019

Students with Distinctions

Nasreen, student of B.A. Prog. III Year shall be bestowed with the Prof. Madan Mohan Prasad Memorial Prize having attained international recognition in Sports. She was a member of Team India that won the Gold Medal in Kho Kho in the 13th South Asian Games held during 1-10 December 2019 in Kathmandu-Pokhara-Janakpur.

On 4th February, 2020, two of our cadets, JUO Anjali Kapasia and JUO Shruti Sakral were felicitated by Lt Governor Mr Anil Bajaj for their commendable performance in NCC.

Ekta Chopra, student of M.A. (Prev) Psychology, was recognised as a University Position Holder (North Campus), for securing the 1st position in her course.

Nupur Singh, student of M.A. (Final) Psychology, was recognised as a University Position Holder (North Campus), for securing the 1st position in her course.

9 students from the Science stream were awarded University Meritorious Awards during the academic session 2019-20 in honour of their exemplary academic performance.

Publications

K.T. Poumai, S.K. Kaushik, Poonam Mantry, "Weyl- Heisenberg frames and Balian-Low Theorem in $l_2(Z)$ ", Journal of Mathematical Physics 60,043507 (2019).

Malini Sharma (2019) A study on Demonetization and empirical analysis of effect of demonetization on Microcredit Participation of Self-Help Groups in Urban slums of Delhi, Zenith International Journal of Multidisciplinary Research (ZIJM) 9(6).

Manisha Gupta, Simran Babbar, Anita Goel, Radhika Gupta, Neeraj Dohare and Sarita Nanda, "Pollution Controlling Ability Of Indigenous Plant Species Growing Around Drain In Delhi" (2019) Pollution Research 38, 29-35 November Suppl Issue, ISSN: 0257-8050-Quarterly.

Nazneen, S., Raju, N. J., Madhav, S., & Ahamad, A (2019) "Spatial and temporal dynamics of dissolved nutrients and factors affecting water quality of Chilika lagoon", Arabian Journal of Geosciences 12(7), 243.

OnkarMangla and Savita Roy(2020), “Synthesis of gallium arsenide nanostructures for solar cell applications”, Materials Letters 274, 128036 (2020), ISSN: 0167-577X, Impact Factor: 3.204.

R. Gupta, S. Ranjan, A. Yadav, B. Verma, K. Malhotra, M. Madan, O. Chopra, S. Jain, S. Gupta, A. Joshi, C. Bhasin and P. Mudgal, “Toxic Effects of Food Colorants Erythrosine and Tartrazine on Zebrafish Embryo Development”, Curr. Res.Nutr. Food Sci.7 (3), (2019).

S. Kapoor and R. Sahni (2019), “The Adaptive Coping by Caregivers of Individuals with Mental Illness”, International Journal of Applied Social Science 6(1), 147-153.

Soumya Sharma (2019) “Foreign DirectInvestment in India: Concept, Determinantsand its Impact”, InternationalJournal of Research and Analytical Reviews(IJRAR)6(2), 874-883 E-ISSN 2348-1269, P-ISSN2349-5138.

Tarang Kapoor and IshaniAkshada(2019), “From Self to Self Positive: Exploring Positive Psychology in the Bhagawad Gita”, Indian Journal of Social Health and Well-Being 5(1), 26-39 (2019). ISSN 2349-5464.

Vandana (2019) Appropriation of the Tribal Art-form in Bhimayana: AmbedkarThrough the Graphic Mode. Trajectories of Popular Expression: Forms, Histories, Contexts. Ed. NavneetSethi and AnanyaSaha. New Delhi: Aakar Books.

Research Projects

PI: Sarita Nanda (Biochemistry) andMalini Sharma (Economics):Star Innovation project entitled Campus Sustainability Index (2016-19)Amount Sanctioned: 7.50 Lakhs (funded by Cluster Innovation Centre, DU)

PI: PadamshreeMudgal(Biochemistry)and ChitraBhasin (Zoology): Star Innovation project entitledEvaluating the effects of common food additives on Vertebrate development andorganogenesis using Zebrafish as a model system. (2016-19)Amount Sanctioned: 17 Lakhs (funded by Cluster Innovation Centre, DU)

PI: Priti Malhotra (Chemistry) and RekhaKathal(Botany): Recycled polyvinyl alcohol (PVA) from waste and its Applications(2016-19)Amount Sanctioned: 5.00Lakhs (funded by Cluster Innovation Centre, DU)

PI: Indu Jain(Commerce) aandPreeti Kapoor (Psychology) : Status of women, children and Youth in slums of Delhi with focus on health, education and employment(2016-19)Amount Sanctioned: 2.80 Lakhs (funded by Cluster Innovation Centre, DU)

PI: Amarjyoti Sinha (Zoology): Radiosensitisingpotentialof anticancer drug in glioblastoma(2019-20)6.00 lakhs, SERB

Seminars Organized

Dr. RadheySyamSharma ,Associate Professor, Department of Environmental Studies, gave a lecture on Restoration Ecology: a common path for Sustainability on 28th August 2019

Dr.DhananjayKapse, Associate Professor, Kirori Mal College, University of Delhi spoke on Modern Indian Literature in Translation on 29th August 2019

Dr.PoornimaPrabhakaran,Deputy Director, Centre for Environmental Health, Public Health Foundation of India spoke on Air Pollution - An Overview of the problems, impacts on health and current research landscape on 9th September 2019

Dr. Himanshu Ojha Scientist, INMAS, DRDO spoke on Role of Chemistry in Space Missions on 25th September 2019

Dr. S Laxmi Devi, Director of Centre of Entrepreneurship Career Oriented Program, founder & principal of Shaheed Rajguru College of Applied Sciences spoke on advices & tips for a future in entrepreneurship on 6th February 2020.

Conferences Organized

Daulat Ram College sponsored Annual Youth Conference: “Conference on Current Economic Issues) held on 4th November 2019

UGC & ICSSR Sponsored National Conference on Income Inequality, Protectionism and International Trade in Digital Age: with reference to India 21st January 2020 Prof.

INSA and Dept of Physics, DRC National; Workshop on Quantum Mechanics and its application 24th September, 2019

Under IQAC, DRC National Workshop on Water and Waste Management held on 31 August, 2019

DRDO and IQAC, DRC sponsored National Symposium and Workshop 7th August, 2019 Dr. Bhuvnesh Kumar, Director DIPAS < DRDO, Dr. Mantu Shah, DIPAS; Dr. Sonia Mehta, Associate Professor, DRC

Seminar/Conference Presentations

Alisha Srivastava, Tanya Roy, Aysha Saja, Ayushi Goel, Divyanshi Tyagi, Kriti Rustagi, Manisha, Payal, Payal Singh, Pratiksha Mall, Preeti, Priyanka Thakur, Pushpinder, Samprikta Kundu, Saumya Kathuria, Shagufa Rahim, Shivani Upreti, Shreya Gupta, Sumnil, Apoorva Tiwari, Monika Bhau, **Radhika Gupta and Sarita Nanda** (Feb, 2020) Adolescent Health: Key to healthy adulthood International Conference on Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases, Department Of Biochemistry, South campus, University of Delhi

Amarjyoti (Feb 2020) Optimisation of an ex vivo model system for anti glioma drug screening and delivery In International Conference of Natural Products and Human Health, Organized by Deshbandhu College, University of Delhi

Anju Jain and Sarita Nanda (2019) Limitations and recommendations of the National Education Policy 2019 National Seminar on Quality in Higher Education (QHE 2019) organized by Venkateshwara College 18-19th Oct, 2019

Kaur M., Gupta R., Bhasin C., Joshi A. and Mudgal P. Study of anxiolytic activity of Ayurvedic drugs using zebrafish larval stress response assays (Feb, 2020). International Conference on Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases, Department Of Biochemistry, South campus, University of Delhi

Vandana (2019) “The Adi-Movements in the 20th C India: Indigenous Assertions of Non-Hindu Identity”. National Seminar organized on Articulating Silences: Indigenous Narratives As Resistance by Chellamal Women’s College of the Pachaiyappa’s Trust, Chennai. December, 2019.

Malini Sharma (2019) ” Intersection of Microcredit Participation and Health Status of Women”, presented at International Conference on Women’s Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women’s Leadership: Issues and Challenges in 21st century (Nareevaad 2019), held on 9th November, 2019, at JNU, New Delhi.

Saumya Sharma and Megha Jain (2019) The Nexus between Climate Sustainability, Economic Growth, Financial Development, Competitiveness and Governance Indicators: Evidence from G4 Nations” Ph.D Colloquium Conversations on Research held at Mumbai from 5th to 8th November 2019.

Sujata V Raju (2019) Identity of embodied self with the transcendental self: ultimate spiritual realisation at the International Conference on Spirituality And...Culture organized by Progressive Connexions Interdisciplinary Life at Bruges, Belgium. April 13 to April 14, 2019

Pooja V Anand (2019) Invited as a speaker at a symposium on ‘Positive Universities Across the Globe’ at the Sixth World Congress on Positive Psychology organized by International Positive Psychology Association from 18-21 July, 2019 at Melbourne, Australia.

Khosla, M. (2019, 8th January). “Traditional Indigenous Healing in India”, Panel Keynote presented at the International conference on Integrating Traditional Indian Healing Practices with Contemporary Western Health System, from 8-9th January, at Daulat Ram College, University of Delhi, Delhi.

Placement Details

Number and percentage of students placed: 71 (20% of the applicants)

Number of companies/industries visited for campus recruitment: 45

Extension and Outreach Activities

Himachal Trekking Camp 8-15th June, 2019 1 Delhi Girls Battalion, organised by Govt Of India; No of teachers coordinated 01; No of students participated 02

Combined Annual Training Camp (CATC, 2019) 11th-21st July, 2019 1 Delhi Girls Battalion, Organised by Govt Of India; Number of Teachers Coordinated 01; No of students participated, 80

Inter group Competitions – NCC republic day camp

20-29th Aug, 2019 1 Delhi Girls Battalion organised by Govt Of India; Number of teachers coordinated 01; Number of Students participated 01

Army Attachment Camp: 1-15th Sep, 2019 1 Delhi Girls Battalion, Organised by Govt Of India; Number of Teachers Coordinated- 01; Number of students participated- 04

Thal Sena Camp : 16-27th Sep, 2019 1 Delhi Girls Battalion, organised by Govt Of India; Number of Teachers Organised-01; Number of students participated-03

CATC Naval : 16-25th Oct, 2019 1 Delhi Girls Battalion, organised by Govt Of India; Number of teachers coordinated-01; Number of students participated-03

EK Bharat Shreshtha Bharat (EBSB-2019-20) : 4-15th Nov, 2019 1 Delhi Girls Battalion, Organised by Govt of India; Number of Teachers coordinated-01; Number of students participated-07

Ajmer Trek : 14-22nd Nov, 2019 Organised by NCC Sikkim unit; Number of teachers coordinated- 01; Number of students participated-03

PM Rally Para Slithering : 16-28th Jan, 2020 1 Delhi Girls Battalion, Organised by Govt of India; Number of teachers coordinated -01; Number of students participated-01

PM Rally : 28th Jan, 20201 Delhi Girls Battalion, Organised by Govt of India; Number of teachers coordinated-01; Number of students participated -07

Faculty Strength

Permanent: 66

Adhoc: 124

Financial Allocation and Utilization

Grant sanctioned in Rs 3554.53 lakhs

Utilised in Rs 3554.53 lakhs

Other Significant Information

Activities of the Recycling Unit : College is successfully running the recycling unit where tons of fallens leaves are composted into manure. Here waste paper is also recycled into new paper and upcycled into carry bags

DELHI COLLEGE OF ARTS & COMMERCE

Major Activities and Achievements

The college observed International Yoga (June 21, 2019), Swachhta Pakhwada (October 31), Constitution Day (November 26), and Earth Day (April 22). Vigilance Week was observed in October 2019. The Gandhi Study Circle organised a Paper presentation competition on the topic "Gandhian Ideology and it's Contemporary Relevance". The SC/ST/OBC Cell organised talks to comemorate reformers and icons. Noted speakers to address the students include Saurabh Mishra, Prof. Surajit Mazumdar, Dr Smita Tripathi, Dr Amita Prasad, Prof. Satyaki Roy and Dr Uma Jayaraman. The IQAC cell organised several webinars. Dr Shalini Saksena, Dr Smita Banerjee and Navneet Manchanda reviewed papers for various Journals. Dr Smita Banerjee reviewed a course for MHRD GIAN. Dr Neeru Kapoor, Dr Smita Banerjee, and Dr Shilpa Chaudhary adjudicated the PhD theses of candidates. One student supervised by Dr Anuradha Gupta has been awarded his Phd degree while another has submitted her PhD thesis.

Honours/Distinctions

Ms Niyati Sharma completed M Phil from the Department of Political Science, Delhi University in 2019.

Mr Radheyshyam Kalawat was awarded a M Phil from the Department of Commerce, Delhi University in 2020.

Dr Neela Yadav participated and completed Annual Refresher Programme organised by HRDC, Gujarat University on English Language Teaching from October 1 to December 31, 2019

Ms Poonam Rani, Library attended a short term Certificate Course.

Students with Distinctions

Dr. Arun Kumar, an alumnus from the Department of History joined as Assistant Professor in British Imperial and Colonial History, Nottingham University, UK.

Paramita Baishya, presented a paper on “Disability and studies in Literature” in a workshop - OCEANVALE organised by the English Department of KMC, DU in September-December, 2019.

Deepak Deshwal, BA (P), 1st year won Gold Medal in Judo at all India Khelo University

Sandeep Kumar BA (P) 3rd year won Gold Medal at National Powerlifting Championship

Tannu Lathar BA (H) Pol Sc, 2nd year, won Gold Medal in 800m Inter College Championship

Publications

Banerjee, S. (2019). Evolution of Dada Uttam Kumar: Performing Masculinity and the Disillusioned Bhadraklok Mahanayak in the 1970s 'Popular Melodramas. *BioScope* 1–23 © Screen South Asia Trust, DOI:10.1177/097492761985545.

Baruah, C. (2019). Examining identity in Bodoland Territorial Area Districts (BTAD): Limits of the liberal state. *Alter Readings Literature, Society and State: Panchajanya Books*, ISBN 978-93- 88645-44-7.

Bharti, S. (2019). Parsi Theatre in Indian Popular Imagination. *Ravenshaw Journal of Literary and Cultural Studies*, Vol. IX:18-26.

Gupta, A. (2020). On coupled best proximity point and Ulam-Hyers stability, *Journal of Fixed Point Theory and Applications*. No. 2, Paper No. 28, 21pp. (Online ISSN: 1661-7746)

Kapoor, N. (2018). *Fundamentals of E-Marketing*. New Delhi, Delhi: Pinnacle Learning.

Sharma, M., Kumari, M., Singh, V.B. (2019). *Multi-Attribute Dependent Bug Severity and Fix Time Prediction Modeling*, International Journal of System Assurance Engineering and Management, Springer, Volume 10, Issue 5, pp 1328–1352.

Mohapatra, A. (2020). “Worldliness of the Otherworldly: Dissemination of Devotion from Early Modern to cassette Era”, in Jyotirmaya Tripathy and Uwe Skoda (eds.) *Bonding with the Lord: Jagannath, Popular Culture and Community Formation*, New Delhi: Bloomsbury:24-47.

Rani, P. (April, 2020). Basics of Library Automation [Research Paper], *Purakala* with ISSN 0971-2143, 3,1 (4).

Saksena, Rashmi, S. Tiwary B.K. (2019) Understanding Accessibility, Inclusion and Performance of Students with Disabilities in Higher Education: A Case Study of University of Delhi. In Bhushan S. (ed.), *The Future of Higher Education in India* (pp 259-278). Springer, Singapore. http://doi.org/10.1007/978-981-32-9061-7_16

Sharma, D. A. P (2019). Introducing Design Thinking in Hindi Foreign Language Education: An Innovative Approach for Enhancing Holistic Proficiency, *Journal of oriental Studies*; Vol. 4(91); Kazakhstan: Al-Farabi Kazakh National University

Research Projects

Central Institute of Educational Technology, NCERT, Delhi: May - June 2019. Reviewing and Developing Economics Modules for final review and script writing of videos for MOOC.

Seminar/Conference Presentations

Dr. Anita presented a paper, entitled, "Technology and Social Media- A Boon for Women Entrepreneur In India in an National Conference. Bharati College, Delhi University in April 2019. (published by the organizers in the edited book ISBN No.9789387633087).

Dr. Smita Banerjee presented a paper entitled, "Renaissance: anthropomorphism and rebirth [Paper Presentation]. National Seminar cum Workshop on History of English Literature, ARSD in collaboration with Department of English, Delhi University.

Dr Vinita Gupta presented a paper entitled," Romancing the Auto/biographies of Two Women from Pakistan & Myanmar: A Comparative Study [Paper Presentation]. XXII Congress of the International Comparative Literature Association (ICLA), University of Macau in July 2019.

Dr. Rajesh. Kumar presented a paper entitled," The concept and practice of Truth in Gandhi in an International Seminar, Gandhi at 150, on Satyagraha in the Twenty-First Century: Social, Ethical and Spiritual Dimensions in the Global Pursuit of Truth, Council for Social Development, India International Centre, New Delhi during October 2019.

Malhan, Meera presented a paper entitled, 'Changing Contours of Trade in Rajasthan: An Exploratory Study of Trade Transactions during 18th Century in an International Conference on Indian Business & Economic History, IIM-Ahmedabad held in August 2019.

Saxena, Neeraj Saxena presented a paper entitled,"The Bhagavad Gita Way of Life for attaining Peace and Prosperity for all in an International Conference on "Perspectives on Peace and Sustainable Development in a World of Conflict", Vivekananda College, University of Delhi in February 2020.

Dr A.P.Sharma, presented a paper entitled,'National Security and Changing Paradigm of Political Culture in India : General Election 2019 in an International Conference on *Silk Road : Connecting Cultures, Languages and Ideas*, Moscow State Linguistic University and International Association of Silk Road Studies (IASS).

Surya presented a paper entitled, "Communication and Social Change for the Marginalized and the Underprivileged in an UGC sponsored national seminar held at Department of Journalism, Kalindi College, University of Delhi held in September 2019.

Other Inter-Institutional Collaboration

The Internal Complaint Committee and Gender Sensitisation Committee of DCAC organised a talk by noted lawyer Ms. Barsha Mishra, from The Rights Mission, on 20 September, 2019 on "The Sexual harassment of woman at workplace, prohibition and redressal Act 2013".

Placement Details

Number of Students placed: More than 80

Number of companies visited for campus recruitment: More than 40

Extension and Outreach activities

Before the semester officially started, the NSS volunteers set up a help desk almost every single day of the admission process to assist the freshers and admission seekers.

Swachha Bharat Summer Internship 2020: Eight interns from the college joined this internship. It was coordinated by NSS, University of Delhi on behalf of MYAS. The volunteers adopted village Pillanajito to execute activities related to solid waste disposal. Each intern volunteered for fifty hours each and received certificates at the completion of the internship.

Projects and Workshops: Throughout the year NSS volunteers also worked on the following projects:

Project Tanzeal: students from neighbouring slums were taught on weekdays.

Project Specially Aabled: scribes as asked for by NAB were provided.

Project Tanzeal, expanded to 6 new centres across Delhi, NCR through collaborations with various NGOs like Vidya NGO, Gali Patshala, Human Welfare Council and Ujala. The enrolment rate increased by 30% with 20 new refugees and 300 new internally displaced children coming to our centres.

In March, 2019 Enactus DCAC organised an event in collaboration with Roko Cancer to spread awareness and talk about cotton-based prosthesis. Renowned doctors attended the event.

700 masks were donated to Hon. Atishi Marlena, 500 masks were donated to Cabinet Minister of Delhi, Hon. Rajendra Pal Gautam and 100 masks were donated in collaboration with the Delhi Police.

Library Development

The total number of books added during the current year is approximately 550.

The following services/practices were initiated and adopted:

Organised Book Exhibition to explore more options to find required desired collection in the Library.

Organised Orientation Programme to make newly admitted students aware about library services and facilities

Facility of accessing E-resource services from home (remote area) through N-LIST & DELNET subscription.

Current awareness section equipped with magazines, newspapers and comparative books (Banking, Railways and other SSC exams).

Facilitating current awareness services through notice boards and library software.

Facility of previous year question papers of different disciplines and journalism dissertation/project for students and faculties.

Faculty Strength

SANCTIONED – 94

IN POSITION – 49

Financial Allocation and Utilisation

Grant Sanctioned: Rs. 17,47,15,000/-

Utilized: Rs. 26,88,96,029/-

DEEN DAYAL UPADHYAYA COLLEGE

Major Activities and Achievements

At Deen Dayal Upadhyaya College, the students are not only focused on academics but also groomed in all dimensions which is essential to compete in the fast-growing technological world. A plenty of curricular, co-curricular and extra-curricular activities are conducted by the Student Activity Board, Subject Societies and Clubs. The college achieved the distinction of being ranked 11th, 17th, and 29th in Science, Commerce, and Arts respectively in India by the India Today-MDRA Best Colleges Ranking 2020. The college has been ranked 15th out of 1659 participating colleges in the NIRF India Rankings 2020 conducted by the Ministry of Human Resource Development (MHRD). Publications in 2019-2020 included 61 research papers in International/National journals and periodicals, 9 books/chapter in books, and 11 research papers in conference proceedings. The pass percentage in the university examination held in May/June 2019 was 99.88% (2504/2507). The students also won laurels in extracurricular and sports activities.

Honours/Distinctions

Dr. Varnika Bhatia received the Best Poster Award at International Conference on Advances in Sustainable Agriculture: Bioresources, Biotechnology, and Bioeconomy held at Mansarovar Global University, Bhopal on 29-30 November, 2019.

Dr. Rakesh Kumar received the Emerald Literati Award 2019 for Highly Commended Research awarded by Emerald Publishing UK.

Rupam Kumari, Shallu, Nishi Pant, Vaibhav Saini, Adrija Mohanta, Roshan Kumar, Nirjara Singhvi, Vipin Gupta, Utkarsh Sood, Rup Lal, *Renu Solanki*, and *Shailly Anand* won the first prize from International Society for Microbial Ecology (ISME) for their poster presented at International Conference titled Current Trends in Microbiology and Microbiome Research: A Global Perspective (CTM 2019) organized by the Indian Network for Soil Contamination Research and MDU at Maharshi Dayanand University, Rohtak, Haryana on October 11-12, 2019.

D.D. Kosambi Teacher Mentor Award 2019 for exemplary contribution in collaborative biology research from HBCSE, TIFR, Mumbai under stem games.metastudio.org initiative.

Dr. Ratnesh Rajan Saxena was elected as Member-Academic Council of the University of Delhi for 2019-2021.

Students with Distinctions

Mr. Rupesh Kumar from B.Sc. Life Sciences (college roll no. 16LFS7742) was awarded prize money of Rs. 10,000/- among the colleges funded by Govt. of NCT of Delhi. Ten students have been selected for the Under-graduate Science Meritorious Award 2019-20 by the University of Delhi, amounting to Rs. 3000/- in the form of books on the basis of their performance in the examination held in 2018-19.

Publications

A. K. Singh, Dishu Dawra, Mayank Dimri, Alok K.S. Jha, Rinku Sharma and **Man Mohan** (2019), *Relativistic Photoionization Cross Section Calculations and Resonance Parameters for Mg-like Se XXIII*, Radiation Physics and Chemistry, 168, 108447.

Ajay, R. Narang, **M. Saxena** and M. Gupta (2019), *Model of GaSb-InAs p-i-n Gate All Around Bio Tunnel FET*, IEEE Sensors Journal, Vol. 19, no. 7, pp. 2605- 2612, Impact Factor: 3.076, UGC Reference Number: <https://www.scopus.com/sourceid/15047>.

Ankit Rajpal, Anurag Mishra, and Rajni Bala (2019), *A Novel fuzzy Frame Selection Based Watermarking Scheme for MPEG-4 Videos Using Bi-directional Extreme Learning Machine*, Applied Soft

Computing 74 (2019): 603-620, DOI: 10.1016/j.asoc.2018.10.043, Impact Factor: 4.004, UGC Reference Number: 8086.

D.S. Bisht, **V. Bhatia**, R. Bhattacharya (2019), *Improving Plant-Resistance to Insect-Pests and Pathogens: The New Opportunities Through Targeted Genome Editing*, Seminars in Cell and Developmental Biology, 96, 65, Impact factor 6.138, ISSN: 1084-9521.

NK Mahato, A. Sharma, Y. Singh, R. Lal (2019), *Comparative Metagenomic Analyses of a High-Altitude Himalayan Geothermal Spring Revealed Temperature-Constrained Habitat-Specific Microbial Community and Metabolic Dynamics*, Arch Microbiol, 201:377-388, IF-1.6, UGC Reference Number 8389.

Rajan Gupta, S.K. Muttoo, and S.K. Pal (2019), *A Comprehensive Review of Approaches Used for Solving Tele-Center Location Allocation Problem in Geographical Plane*, International Journal of Operational Research, Article in Press, INDERSCIENCE, Scopus and UGC Indexed, <https://doi.org/10.1504/IJOR.2020.10024403>.

Rakesh Kumar (2020), *Does Trade Interdependency Lead Linkages Between Stock markets? A Case of South Asian Countries*, International Journal of Emerging Markets (UK), <https://doi.org/10.1108/IJOEM-08-2018-0446>.

S. Kumar and M. Saini (2020), *On Zeros and Growth of Solutions of Second Order Linear Differential Equations*, Commun. Korean Math. Soc., Vol. 35, No. 1, 229-241, Scopus indexed.

Sachchidanand Tripathi, Rahul Bhadouria, Pratap Srivastava, Rajkumari Sanayaima Devi, Ravikant Chaturvedi, Akhilesh Raghubanshi (2020), *Effects of Light Availability on Leaf Attributes and Seedling Growth of Four Tree Species in Tropical Dry Forest*, Ecological Process, 9 (2), 1-16, <https://doi.org/10.1186/s13717-019-0206-4>.

V.K. Vishvakarma, P. Singh, V. Kumar, K. Kumari, R. Patel, R. Chandra (2019), *Pyrrrolothiazolones as Potential Inhibitors for the nsP2B-nsP3 Protease of Dengue Virus and Their Mechanism of Synthesis*, Chemistry Select, 4 (32), 9410-9419, Impact factor- 1.71 and UGC reference number - 48395.

Journals

Three teachers, namely **Dr. Hem Chand Jain**, **Dr. Manoj Saxena** and **Dr. Meghna Aggarwal** serve as members of the editorial board of leading International Journals.

Research Projects

Dr. P. K. Jha has been sanctioned a sum of Rs. 428 lakhs from DRDO for a major project on *Fabrication of Lamb Wave Devices on SiO₂/Si Membrane for Strategic Applications*.

Dr. A. K. Singh has been sanctioned a sum of Rs. 44,07,480 from DST-SERB for an on-going major project (2017-2020) on *Study of Atomic Processes for Multi-charged Ions for Plasma Diagnostics*.

Dr. Manoj Saxena has been sanctioned an amount of Rs. 23 Lakhs by CARS, DRDO for a one-year project (2019-2020) titled *Layout Optimization and Thermal Analysis Switching Applications and LNA Design*. He is the co-principal investigator in this DRDO sponsored project.

Dr. Varnika Bhatia has been sanctioned an amount of Rs. 10 Lakhs by UGC-BSR for a two-year project (2017-2019) titled *Metabolic Engineering of Taxol to Enhance its Anti-cancerous Efficacy*.

Dr. Jyoti has been sanctioned a sum of Rs. 6 Lakhs by UGC for a two-year project (2018-2020) titled *Solution Based Synthesis of Graphene Quantum Dots and Study of Photoluminescent Emission Property*.

Patents Filed /Granted

One national patent was filed by Dr. Ankit Rajpal titled *System and Method for Watermarking Mpeg-4 Advanced Video Coding (AVC) Videos* (Application No. 201911053169).

Seminars Organized

Research Seminar in Mathematical Sciences was organised. The distinguished speakers included **Professor E. K. Narayanan**, IISc, Bangalore who is a well-known authority in Harmonic analysis and **Prof Kaushal Verma** (Shanti Swaroop Bhatnagar Awardee) from IISc, Bangalore, well-known for his work in several complex variables.

A one-day seminar was organized on 22 February 2020 on the topic “*Women Safety: A National Priority*”.

The Department of Commerce in collaboration with SEBI organized a seminar on 30 September 2019 on “*Financial Markets*”.

A one-day seminar on the topic “*Learning and Scholarship in the Digital World: Opportunities and Challenges*”, was organized on 2 March 2020 in the College Auditorium

Conferences Organized

The Department of Management Studies collaborated with Delhi School of Planning and Research Studies, GGS Indraprastha University to conduct ICSSR sponsored XXI Annual International Conference on broad theme: “*Achieving Excellence in Higher Education*” on 4-5 January 2020.

Seminar/Conference Presentations

Ashutosh Mishra, Khushwant Sehra, Sahil, Ajay Joshi, Poonam Kasturi, and Manoj Saxena got selected to present a paper entitled Memristor Based Cryptographic Information Processing for Secured Communication Systems at 5th IEEE International Conference on Devices, Circuits and Systems organized by Karunya Institute of Technology and Sciences, Coimbatore, Tamil Nadu, India on 5-6 March 2020.

Dixita Barua, Akansha Jain, and Dr. Veena Jain presented a paper titled Analysis of Impediments Hindering the Execution of LARS Principles in Supply Chain Management in the Indo-French Seminar on Optimization, Variational Analysis and Applications ((IFSOVAA-2020) at BHU.

Dr. H. P. Roy presented a paper titled Gandhi’s Secularism in a National Seminar on How Gandhi Matters: Assessing the Relevance of Gandhian Solutions for India and the World in the 21st Century organized by Gandhi Research Foundation and Indian Institute of Advanced Study on 23-24 August 2019.

Dr. Lalit Kumar was invited to give an overview of Greco-Roman culture in a one-day seminar organized by the Department of English, CVS, University of Delhi in collaboration with Indo-Hellenic Friendship League on 21 August 2019.

Dr. Nityananda Agasti presented a paper titled CeO₂ Inside Carbon Nanostructures for Catalytic Applications at Indo-UK workshop on Green Chemistry for Societal Needs: Healthcare, Pollution and Circular Economies organized by the University of York and the University of Delhi from 16 – 18 December 2019 at New Delhi.

Dr. R. M. Bharadwaj presented a paper titled #Me Too, Men Too #The Pride Parades of the LGBTQ+: Examining the Media Reports about the socio-legal implications on these Gender Movements in India at an International Conference held at IMRF Mysore Chapter, Mysore, Karnataka on 14-15 June 2019.

Dr. Rajan Gupta and Dr. S.K. Pal presented a paper titled Impact of Social Media on E-Participation of Citizens towards E-Governance Services in Developing Nations like India in the Doctoral Track of the seventh Pan IIM-World Management Conference (IIM-WMC) at IIM, Rohtak from 12-14 December 2019.

Megha Bansal, Anurag Mishra, Arpita Sharma presented a paper titled Optimized DWT SVD Based Image Watermarking Scheme Using Particle Swarm Optimization at the 2020 International Conference on Computational Science and Its Applications, Italy from 1-4 July 2020.

Mr Nitin Luthra presented a paper titled Reckoning and Resisting Historical Erasure: A Comparison of the Deposition Scene in Holinshed's Chronicles and Shakespeare's Richard II at Reckonings, the 2020 University of Cincinnati Graduate Student Conference on 29 February 2020.

National/International MoU Signed

Memorandum of Understanding (MoU) for Institutional Collaboration between *Deen Dayal Upadhyaya College (University of Delhi)* and *CSIR-Central Engineering Electronics Research Institute (CSIR-CEERI)* was signed on September 08, 2020 to encourage the development of the following exchange programs based on their respective academic and educational needs.

On 12 March 2019, MoU signed with *National Institute of Immunology (NII), New Delhi* and On 16 April 2019, MoU signed with *Translational Health Science and Technology Institute (THSTI), An Autonomous Institute of DBT, Ministry of Science and Technology, GoI.* Both MoUs were for Science Setu Program to bridge education and Research at Undergraduate level and to contribute to the national goal of encouraging more and more bright young minds to take up the pursuit of science and technology as a career option.

i3indya™ Technologies, G-85, Preet Vihar, Delhi – 110092 and *Deen dayal Upadhyaya College* has signed an MoU on 20 May 2018 wherein *i3indya™ Technologies* shall be the Academic Training Partner and shall conduct Training Programs on Embedded Systems and Robotics.

Placement Details

110+ students were placed in 2019-2020 that accounted for **65%** placements.

50+ companies – Jaro Education, KPMG Global Services, WIPRO Ltd., E&Y GDS, Chegg India , Vedang Consultancy, TresVista, Genpact, TravClan, Ken Research, Royal Bank of Scotland, DeltaX, Infosys, FEIO, Concentrix, L&T, Gartner, D.E Shaw Group to name a few – visited the campus and offered final placements during the academic session 2019-20.

More than 50 students secured internships in leading companies. Students were also sent to various Job/Internship fairs organized at different other colleges of University of Delhi.

Extension and Outreach Activities

A 'Save Water Save Energy Campaign' and Plantation Drive was conducted in the college and the nearby societies in Dwarka by the volunteers of Eco Club.

Cleanliness Drive in the college campus and adjoining areas was frequently organised by the student volunteers between August, 2019 and February, 2020.

1-3 August 2019: The volunteers of NSS, DDUC organized a rally Jal hi jeevan hai under the Jal Shakti Abhiyan at the college premises and nearby locality. A flood donation drive for the victims of Assam and Bihar floods was organized by the volunteers of NSS, DDUC in the college premises.

Library Development

The College library has been successfully undertaking automated operation since last one-and-a-half decade using professional database software through network of client-server systems. It has up-to-date bibliographic database of books and journals. The library has added 1143 volumes of books this year, making its total collection as 46,732 volumes of books. The library subscribed to 50 journals and magazines of national and international repute in the relevant subject areas.

Faculty Strength

There are **122 (permanent) +2 (EVS)** sanctioned posts against which 92 teachers on regular basis and 30 teachers on adhoc basis were working.

Financial Allocation and Utilization

Grant sanctioned in Rs **3492.97** lakhs

DBT account 15,48,214/-

DESHBANDHU COLLEGE

Major Activities and Achievements

This year our college has organized two major events: Innovation in Science Pursuit for Inspired Research (DST) and Vidyanthi Vigyan Manthan, India's Largest Science Talent Search for New India Using Digital Devices. Dr. Kumar Shantanu secured All India rank 2nd as Contingent Commander of Senior Division Cadets of 1 Delhi Air Sqn (Flg) NCC in All India Vayu Sainik Camp. The dedicated services of Deshbandhu College were recognized wherein the college received the 'DR. P.M. Joseph National Excellency Award' for the best Department in India to promote One Specific Game and Sports (Archery). The University of Delhi invited Dr. Anjum Padyal, Head of Department to lead the contingent of more than 700 students for Mass Aerobic Fitness on the launch of the Fit India Movement by Hon. Prime Minister on 29th August 2019 to celebrate National Sports Day. Dr. Anjum Padyal received the National Women Excellence Award for the Exemplary work in the field of Sports. Dr. Indrakant Singh received "Long Term ICMR-DHR International Fellowship for Young Bio-medical Scientists-2019-20" to Work at Keck School of Medicine, Norris Cancer Centre, University of Southern California, Los Angeles, USA. He was also awarded with "Post-doctoral Fellowship, Max-Planck Society, Germany" to work as Visiting Scientist at Department of Molecular Ecology, Max-Planck Institute for Chemical Ecology, Jena, Germany. The two projects are granted to the Zoology department (Principal Investigator: Dr. Indrakant Singh), one is funded by Indian Council of Medical Research, Ministry of Health & Family Welfare, Government of India and other by Department of Health Research, Ministry of Health & Family Welfare, Government of India.

Students with Distinctions

Cadets were selected from Deshbandhu College NCC for the Prestigious Camp: J.U.O Abhishek Mishra was selected as the Delhi Directorate Best Cadet during AITSC 2019. The selection was made on the basis of firing, interview, personality test and drill test. 2. CPL. Ankur Kumar was selected as the Delhi Directorate Best Cadet during AITSC 2019. 3. CPL. Subhanshu Saman was part of the Map Reading Team of Delhi Directorate. He also won a Bronze medal in the Inter Battalion Competition.

Mr. Milan has represented India and won Silver Medal at International-50th Grand Prix Liberations Pilsen.

Mr. Milan has represented India and won Bronze Medal in International-Grand Prix Novi sad International Championship.

The students of the yoga team and the aerobic team were deputed to conduct a daily session for IPS officers and 300 officials at the National Crime Bureau, Mahipalpur under the guidance of Dr. Anjum Padyal.

Mr. Anupam Goel, President of the Fiontraí- Entrepreneurship Cell has been highly commendable to make society vibrant and dynamic. The core members have been diligent in their responsibilities and imbuing the same traits to the recruits. Team Fiontraí organized its first annual entrepreneurship fair under the head B-WALK.

Publications

Giri A, Safi H, Cabibbe AM, Gupta S, Narang A, Tyagi G, Shrivastava K, Kumar C, Kumar Sharma N, Lingaraju S, Trovato A, Battaglia S, Cirillo DM, Bose M, Alland D, Varma-Basil M. Lack of association of novel mutation Asp397Gly in aftB gene with ethambutol resistance in clinical isolates of Mycobacterium tuberculosis. *Tuberculosis (Edinb)*. 2019 Mar; 115:49-55.

Narang A, Garima K, Porwal S, Bhandekar A, Shrivastava K, Giri A, Sharma NK, Bose M, Varma-Basil M. Potential impact of efflux pump genes in mediating rifampicin resistance in clinical isolates of Mycobacterium tuberculosis from India. *PLoS One*. 2019 Sep 26; 14(9):e0223163.

Shrivastava K, Kumar C, Singh A, Narang A, Giri A et al. An overview of pulmonary infections due to rapidly growing mycobacteria in South Asia and impressions from a subtropical region. *Int J Mycobacteriology*. 2020 Mar 6; 9(1): 62-70

Roshni Rajamohan Mathur and Arun K. Pandey, 2020, Development and Structure of Phytomelanin in Coreopsidae (Asteraceae). *The International Journal of Plant Reproductive Biology* 12(1), p84-94.

Yateesh M. Bahuguna, H. Govindapuri, Shantanu Suman and P.L. Uniyal 2018. Bryophyte Diversity, Utility and Prospects. In: *Plant Diversity of India* (Eds A.K. Bhatnagar & Rupam Kapoor), pp 128-179. I.K. International Publishing House Pvt. Ltd., New Delhi.

Research article- Occurrence of Apomixis in *Eleusine coracana*. *Flora* 265 (2020) Elsevier. Impact factor 1.423

Chongtham, R., & Rani, M. (2020). *Eupatorium birmanicum*: A Medicinal Plant of Ritualistic Importance in the North East Indian State of Manipur. In A. Singh, P. Singh, & N. Bithel (Eds.), *Advanced Pharmacological Uses of Medicinal Plants and Natural Products* (pp. 286-301). Hershey, PA: IGI Global. doi:10.4018/978-1-7998-2094-9.ch015. ISBN13: 9781799820949, EISBN13: 9781799820956

Rani, M., Chongtham, R., & Singh, A. (2020). Anti-Ulcer Activities of Medicinal Plants and Natural Products. In A. Singh, P. Singh, & N. Bithel (Eds.), *Advanced Pharmacological Uses of Medicinal Plants and Natural Products* (pp. 114-127). Hershey, PA: IGI Global. doi:10.4018/978-1-7998-2094-9.ch006. ISBN13: 9781799820949, EISBN13: 9781799820956.

Maity, J.; Srivastava, S.; Rana, R.; Shankar, B.; Khanna, N.; Prasad, A. K. "Biochemical synthesis of coumarin glycosides: A review" *J. Indian Chem. Soc.* 2020, 97, 117-134 (ISSN: 00194522).

Kumar, B.; Maity, J.; Kumar, A.; Khatri, V.; Shankar, B.; Prasad, A. K. "Synthesis of novel 3-[(1-glycosyl-1H-1,2,3-triazol-4-yl)-methylamino]ket-2-en-1-ones" *Chem. Heterocycl. Comp.* 2018, 54, 362-368 (ISSN: Electronic 15738353; Print 0009-3122).

Research Projects

Funded by Indian Council of Medical Research, Ministry of Health & Family Welfare, Government of India “Design, synthesis and biological evaluation of novel lead compounds for treatment of Fibro dysplasia Ossificans Progressiva (FOP)” (2020-2023), Principal Investigator: Dr. Indrakant K Singh.

Funded by Department of Health Research, Ministry of Health & Family Welfare, Government of India “Pharmacophore modelling to design novel inhibitors of MCL1 as targeted therapy of human cancer” (2019-2022), and Principal Investigator: Dr. Indrakant K Singh.

Funded by Department of Biotechnology, Ministry of Science & Technology, Government of India “DBT-Star College Scheme Project” (2019-2022), Principal Investigator: Dr. Indrakant K Singh.

To promote undergraduate research minor research projects have been initiated under DBT Star College Project.

Patents Filed /Granted- 1

Seminars Organized

The Economics Department has conducted following events in the Academic year 2019-20: Seminar on “Inequality, Poverty and Population in India’s Economy “on 30th September, 2019 in collaboration with IQAC by renowned Prof. S. Subramanian (who is a retired Professor from the Madras Institute of Development Studies (MIDS), an elected Fellow of the Human Development and Capabilities Association, and a member of the advisory board of the World Bank’s Commission on Global Poverty).

Annual fest of the economics society, ECON’FLIX 20, based on economics incorporated in the widely popular TV shows by NETFLIX, an American media services provider, was successfully organized on 17th February, 2020

Physics Department was also a partner department in the DST-INSPIRE Internship Program held from the 17th December 2019 to 21st December, 2019 where children from more than 200 schools participated and the department set up experiments in digital electronics on designing of voting machine. The following faculty members actively contributed to the conduct of the said internship program: Dr. U. P. Tyagi, Mr. Ajay Pratap Singh Gahlot, Dr. Aditya Saxena, Dr. Yogesh Kumar, Mr. Rakesh Kumar Meena, Ms. Deepthi Goel, Dr. Ayushi Paliwal, Dr. Reeta Singh, Dr. Monika Sharma, Mr. Sanjesh Kumar, Dr. Brijmohan and Dr. Ruchika Joshi.

The Department of Mathematics organized a Mathematics Educational Trip to McLeod Ganj and Dharamshala in Himachal Pradesh on February 27 – March 02, 2020. Around 50 students from the Department participated in the trip and gained knowledge and exposure to the nature and culture.

The department organized a One-Day National Seminar on Advances in Nano-Sciences held 21st Oct 2019 for college students under aegis of DBT STAR college scheme. Two eminent scientists and academicians Prof. Bijoy K. Kumar, JNU and Dr. Balaji Birajdar, JNU had delivered lectures entitled “Magnetic Nanostructures for microwave/mm-wave electronics enabling 5G technology and beyond” and “Nanoscale characterization using electron microscopy” respectively. Students got a chance to understand nanoscale characterization techniques such as Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM). The lectures elaborated about the need for these techniques at nanoscale.

Placement Details

Number of students get placed: 03

Number of companies visited for campus recruitment: 50

Extension and Outreach Activities

Lab Visit of Biochemistry (H) 2nd and 3rd year students to RCB Open Day in Regional centre for Biotechnology, Faridabad on 16th October, 2019.

Lab Visit of Biochemistry (H) 2nd and 3rd year students to RCB Outreach program on Science day 2020 in Regional centre for Biotechnology, Faridabad on 28 February, 2020.

Lab Visit of Biochemistry students to IGIB Open Day, Mathura road, New Delhi on 2nd March, 2020.

Department of Zoology: Ten days educational trip to Kanyakumari and Trivandrum was organized with the aim to aid the students acquire basic knowledge of marine ecosystem. 28th December 2019 to 6th January 2020

Department of Zoology: One day visit to Aravalli Biodiversity Park, Gurugram was organized on 26th September 2019 for B. Sc (Hons.) Zoology 1st year to study Perspectives in Ecology Practical Curriculum.

Department of Zoology: One day Educational trip to Regional Centre for Biotechnology, Faridabad was organized for B.Sc.(Hons) Zoology IIIrd year on 16th October 16, 2019

Visit to Dr. B. R. Ambedkar International College by YUVA Society: Volunteering & Management on International Conference, It was our great experience to work together in disciplined manner, we all given our best to make the college conference successful, The conference was three days where we were working together and coordinate all instructions to make the event successful. Some of us attended the conference. Overall it was great experience & it was a chance to work together outside the college, After completion of Conference we got positive feedback and everyone cheering to us, Everyone also given us blessings for our bright future.

One Week Summer Training Programme in Plant Systematics: Department of Botany, Deshbandhu College organized a 'One Week Summer Training Programme in Plant Systematics' in collaboration with ICAR-NBPGR Pusa, New Delhi and BGIR, Noida from 31 May, 2019 to 06 June, 2019. Dr. Roshni Rajamohan was the coordinator of the programme. More than 25 participants including, under graduate students, post graduate students and research scholars from University of Delhi participated in the programme. The key topics of the programme were; Describing a New Species, Key Preparation, Field Activities, Herbarium Techniques, Molecular Markers in Plant Systematics, Tree Construction using Mesquite, Molecular Systematics, Chemotaxonomy, DNA Barcoding, etc. Students thoroughly enjoyed, learned various aspects of plant taxonomy and also come to know about the scope and future in plant taxonomy. The programme ended by organizing a valedictory function on 06 June, 2019. Prof. Arun Kumar Pandey (Vice Chancellor, Mansarovar Global University, Bhopal, M.P.) was the chief guest on the occasion. Prof. Pandey briefed us about the challenges, scope and future in plant systematics and also talked about the relevance of the programme in current scenario. Tree plantation in Botanical garden was also done on the occasion by Prof Pandey along with Dr. Rajiv Aggarwal, Principal Deshbandhu College. The programme was ended with the distribution of certificates to the participants by the chief guest.

Faculty Strength

Permanent faculty: 109

Ad hoc faculty: 104

Financial Allocation and Utilization

Grant Sanctioned: 87.60 + (6.26 previous) cr

Utilized: 74.81 cr

DR. BHIM RAO AMBEDKAR COLLEGE

Major Activities and Achievements

With a total student strength of about 3300 students (41% girl students) and 136 faculty members the College offers a number of Professional and Honours' Courses like Business Economics, Hindi Journalism and Mass Communication, Applied Psychology, Social work, Commerce, Economics, Hindi, Geography and History in addition to B.A.(Programme), B.Com. and Urdu as an elective subject. The College is privileged to have WUS Health Centre and maintains a good Herbal Park. The extra and co-curricular activities included program related to 'Senior Citizens', 'Constitution Day Celebration', 'Maha Parinirvaan Divas', celebration of a Sikkim Week, a Blood Donation Camp, 'Fit India Campaign', 'National Education Day', and awareness about Women sensitization and rights, Voting Rights and Beti Bachao. In addition to department wise lectures by experts, National seminars in collaboration with national and international bodies on following themes were organized: Economic Slowdown: Reasons and Corrective Measures, Nature and Health: Nature vs. Disasters, India-Japan Cultural Relations: In the Context of Hindi and Urdu Language, Relevance of Mahatma Gandhi in Contemporary World. The NSS and NCC units took many initiatives. The Welfare/Fee Committee, Placement Cell, IQAC Cell, the Student Council, and the Alumni Club are effectively functioning. The annual-cultural function *Chetana Mahotsav* and Journal *Academia* provided opportunities to express cultural and academic creativity.

Students with Distinctions

Apoorv Gupta, B.A. (H.) BBE 3rd Year

Tej Bahadur Singh, B.A. (H.), HJ&MC, 3rd Year

Akhil Singhal, B.A. (H) HJ&MC 3rd Year

Anmol Duggal, B. Com (H.) 2nd Year

Tejas Arora, B. Com (H.) 2nd Year

Publications

Arora, G.K. (2019). Higher Education is Globalizing India, Challenges Ahead. Chapter in Sheeba Josheph & Nilofer Kadeer (e.d., 2018), *The Quality of Higher Education in India: Road Ahead*, BSSS, Bhopal.

Bhardwaj, T. (2019). Evaluating a Human Rights Approach to Health in the Indian Context: Emerging Needs and Challenges. *Journal of Human Rights and Social Work*, 1-9.

Dash, B.M. (2019). Perception towards Equality and Effectiveness of Social Work Education through Open and Distance Learning: A Study in Delhi. *Asian Association of Open Universities Journal*, Vol. 14, No.1.

Dash, B.M. (2019). Environmental Justice as Social Work Practice; Christina L. Erickson by Oxford University Press, published in Journal of social work values and Ethics, 16 (1) Springer, 2019, Association of Social Work Board, USA.

Dash, B.M. (2019). Demographic trends of child labour in Delhi', Man and Development, 41 (1).

Dash, B.M. (2019). 'International Social Work' for MSW Course of Indira Gandhi National Open University, New Delhi.

Kumar, M. (2019). Experimentation in the Indian Knowledge Creating Companies. *Effulgence, Vol. 18, No. 1*, pp. 1-10.

Kumar, Dr. Mohnish (2019). The Nature of Knowledge Creation in Indian Knowledge Creating Companies. *CPJ Global Review. Vol. X, No. 2* pp.111-121

Verma, J. (2019). Gender Discrimination in India: Continuity and Change in the book entitled *In Pursuit of Gender Studies, Continuity and Change* edited by Dr. C.U. Panda.

Journals

Published by the college: One

Number of college teachers serving as Editor(s)/Member(s)of the Editorial Board: 3

Research Projects

ICSSR awarded to Dr. Om Mishra, Assistant Professor, Deptt. of Hindi,, Period 01 year, Title: "Rajdhani Delhi ke uch shiksha sanstanom mein divyang vidyartiom ki shiksha ke prati adhayapakon ki abhivriti ka adhyan", Sanction Amount: Rs.80,000/-.

ICSSR awarded to Dr. Ravindra Singh, Assistant Professor, Deptt. of Social Work, Period – 03 months, Title: Assessing living and working conditions of child waste-pickers at Bhalaswa Landfill site, Delhi", Sanction Amount: Rs.3,00,000/-.

ICSSR awarded to Dr. B.M. Dash, Assistant Professor, Deptt. of Social Work, Period 01 year, Title: "A multifaceted approach to understand gender discrimination in access to finance? Evidence form a survey of selected Indian MSMEs", Sanction Amount Rs.6,00,000/-.

ICSSR awarded to Dr. Anish Gupta, Assistant Professor, Deptt. of Commerce, Period 01 year, Title: "Industrialization and Social Unrest: A case study of Tamil Nadu" Sanction Amount Rs.25,00,000/-

Seminars Organized

Department of Mathematics organized a seminar on Applications of Mathematics in March 2019. Professor Shobha Bagai of Cluster Innovation Center, University of Delhi was the chief guest of the event.

The Department of Social Work and Gandhi Study Circle of the College organized a seminar on 'Relevance of Mahatma Gandhi in Contemporary World' on 30 September, 2019.

The Department of Commerce in association with Indian Commerce Association, Delhi NCR Chapter organized a one-day seminar on "Economic Slowdown: Reasons and Corrective Measures" on 18 September 2019.

A one-day Yoga Seminar on Aadhunik Jeevan Me Yoga Ka Mahatva was organized by the College Yoga Committee on 16 April 2019.

The Departments of Hindi and Urdu jointly organized a one-day International Seminar on 'India-Japan Cultural Relations: In the Context of Hindi and Urdu Language' on 15 March 2019.

Conferences Organized

Student Counselling Committee organized a one-day Conference on Stress Management in collaboration with the Delhi University Dean Students' Welfare Office and Ethiccraft Club (18 September 2019).

Three-day International Conference on 'Global Environment Challenges, Human Health and Sustainable Development' on 11-13 January 2019 in collaboration with CSRD-JNU, NEERI, ESDA, UMET-USA, RGSSH, Amity University, GRC India and ECPFO Delhi

Seminar/Conference Presentations

Mr. Purshottam, Department of Commerce presented a paper entitled "Socio Economic Impact of Climate Changed and Environmental Degradation of Indian Society" during the technical session at P.M. Auditorium, V.P. Chest Institute, University of Delhi, Delhi during 18-19 January 2020)

Dr. Rajni, Department of Hindi presented a paper entitled "The contribution of Hindi cinema in the promotion and propagation of Hindi" in International Hindi Conference on 10-11 January, 2020 organized by Hansraj College, University of Delhi.

Dr. Ramashray Prasad presented a paper entitled "Crossing Barriers to Entry in Telecommunication Sector: A Study on Reliance Jio Infracomm Ltd" in 72nd All India Commerce Conference 2019 and International Seminar held at KIIT University, Bhubneshwar, Orissa from 22 -24 December, 2019.

.Dr. Jaya Verma presented a paper entitled, "A Search for Women Liberation in Gandhian Thought" in One Day International Seminar on Revisiting Nationalism, Multiculturalism & Democracy Organized by Rajiv Gandhi Study Circle, Delhi & North-East Cell, K. M. College, University of Delhi on 1 November, 2019.

Dr. Monica Ahlawat presented paper entitled, "Women as Environmental Managers for Sustainability" in the XIII International Geographical Union (IGU)-India International Conference on "Heading towards Zero: Sustainable Development in Economy, Environment and Society", organized from October, 19 -21, 2019 by the Department of Geography, Central University of Haryana, Mahendergarh, Haryana.

Dr. Monica Ahlawat, Department of Geography participated as Co-Chair Person & presented paper on "Role of Indigenous Knowledge in Sustainable Development of the Mountain Environment" in the International conference on "Global Economy, Sustainable Tourism & Climate Change" at University of Rajasthan, Jaipur from 27-29 September 2019

Dr. Sangeeta Sharma Dhaor presented a paper entitled, "Social Work Practice with Homosexual Men in India" at International Conference of Social Work, Switzerland (16-17 September, 2019). The paper was awarded as the Best Paper Presentation.

Ms. Diljeet Kaur presented a paper entitled 'Creating inclusive organization: spirituality, innovation and sustainability' organized by ISOL, Global Foundation at SAID Business School, University of Oxford, United Kingdom (June 2019).

Ms. Ningombam Victoria Chanu presented a paper on "Understanding Social Norms through Korean and Indian Literature" in the International Seminar on Indo-Korean relations under Act East Policy organized by Researchers' Association for the study of Korean and Centre for East Asian Studies on 8-9 November, 2019.

Mr. Purushottam, presented a paper entitled, "A Conceptual Empowerment of Women: Vision of Dr. B.R. Ambedkar in ICSSR sponsored International Seminar on Dr. B. R. Ambedkar's Vision on Socio-economic

Transformation organized by Centre for Dr. B. R. Ambedkar Studies, Kurukshetra University, Kurukshetra during 7- 8 November 2019.

Placement Details

Number/percentage of students placed: 45/45%

Number of Companies visited for campus recruitment: 78 Companies

Extension and Outreach Activities

A Team of about 30 Students participated in Fit India Movement Programme launched by the Prime Minister organized (29th September 2019) in the presence of Hon'ble Vice-Chancellor Prof. Yogesh K. Tyagi at Indira Gandhi Indoor Stadium, New Delhi. More than 250 students participated on 21st October 2019, in the campaign Khushiyo Wali Diwali in association with 'We Are One Foundation'. A team of 45 BBE 1st year students formed three teams under Swachh Bharat Abhiyan and took the initiative to clean the college and its surroundings.

NSS unit of the college observed Swachta Pakhwara from 16th-31st Jan 2020 and organized various activities with objective to bring social awareness on importance of cleanliness and protect the earth.

About 200 students of our college participated in an event organized by the Club D2S, Ministry of Road, Transport and Highways and SIAM under the aegis of 30th National Road Safety Week (20th September 2019).

The College Red Ribbon Committee organized a 'Blood Donation Camp' with the cooperation of Red Cross Society, Delhi on 14th November 2019.

Library Development

Our Library with floor wise signages is well equipped (books, approx. 40901) with extended facilities like OPAC (through which Registered users can check their library accounts) and N-LIST (E-Journals) of INFLIBNET. This year the college has added 1969 new books and subscribed to around 54 periodicals (17 English and 14 Hindi) in addition of 23 newspapers (8 English, 14 Hindi and one Urdu) on the recommendations of TICs / Library Committee. Meritorious and economically weaker students (about 113) are provided books under SAF scheme. Special facilities like CCTV surveillance system, separate AC Cabin with computer facility and online membership of *Suganya Pustakalaya* are arranged by the library for our *Divyang* students. Separate sitting space has been earmarked provided for reading of Braille study material provided by University of Delhi. Library Committee Members visited World Book Fair on 10.01.2020.

Faculty Strength : 136

Financial Allocation and Utilization

Grants Sanctioned Rs. 35,38,91,578/-

Utilised Rs.35,10,05,008

DURGABAI DESHMUKH COLLEGE OF SPECIAL EDUCATION (VISUAL IMPAIRMENT)

Major activities and achievements

The college was established in 2006 to conduct Bachelors Degree programme in special education for the visually impaired under the Department of Education, University of Delhi and recognized by the Rehabilitation Council of India. The college is established & run by the Blind Relief Association, Delhi a premier non-government organization. The college has permanent recognition from the University of Delhi, University Grants Commission (UGC) as well as Rehabilitation Council of India. It receives partial financial support from the National Institute for Empowerment of the Persons with Visual Disabilities (NIEPVD) an apex body under the Ministry of Social Justice & Empowerment, Government of India. As a Trust- run institution, its 19 member Governing Body constituted under the terms of the relevant University statutes manages the college. Prof. Balveer Arora was the chairperson of Governing Body during the year 2019-20. The college has an intake capacity of 30 students per academic session.

Students with distinctions

The following three students out of 27 students passed B.Ed.(Spl.Edn.) final Exam with distinctions marks:

Swati Kaushik secured 1516/2000

Navdeep Pathak secured 1496/2000

Pooja Rani secured 1495/2000

Publications

Dr. Swati Sanyal contributed a chapter entitled 'Education of Children with low vision' in the book "Visual Disability: A Resource Book For Teachers, Volume.2", Published by NIEPVD, Dehradun, December, 2019. She has also contributed as a Resource Person in the Research Project entitled "Material Development for Spatial Concepts among the Visually Impaired Learners" under the Faculty of Education, Jamia Millia Islamia, (Duration April, 2019-June, 2019).

Dr. Sudeep Kumar Dubey contributed as a Resource Person in the Research Project entitled "Material Development for Spatial Concepts among the Visually Impaired Learners" under the Faculty of Education, Jamia Millia Islamia, (Duration April, 2019-June, 2019).

Dubey, S.K (2019) "DRSHTI DIVYANGATA AVM SAMUDAYIKA DAYITWA" Innova Publication, New Delhi.

Dr. Pubali Agarwal contributed a chapter entitled "*Teaching Independent Living Skills to Children with Visual Impairment*" in the book "Visual Disability: A Resource Book For Teachers, Volume.2", Published by NIEPVD, Dehradun, December, 2019. She has also contributed a research article entitled "Need and Importance of Open Educational Resources (OERs) in the Higher Education of Students with Visual Impairment in the book "Bridging Educational Divides: MOOCs and OERs", Published by National Law University, Delhi, November, 2019, as a Resource Person in the Research Project entitled "Material Development for Spatial Concepts among the Visually Impaired Learners" under the Faculty of Education, Jamia Millia Islamia, (Duration April, 2019-June, 2019) and as a Resource Person in the Research Project entitled "Anthology of the Qualitative Research in Education" under the Department of Education, University of Delhi, February, 2020.

Research Projects

The college collaborated with IASE, Jamia Millia Islamia on the project entitled "*Material Development for Spatial Concepts among the Visually Impaired Learners*". All the faculty members contributed as a resource person.

Seminars Organized

The first Alumni Association was constituted by the students in the College. First Alumni meeting was held in Gandhi Hall in July 2019.

2nd year trainees attended a seminar in Jawaharlal Nehru University on: 'Gender and Disabilities' in July 2019.

College organized demonstration and display of various Teaching Learning Material and devices for the visually impaired on the occasion of PLANTIUM JUBILEE of the Blind Relief Association, in December, 2019.

The college organized 'Louis Braille Day' on 4 January, 2020.

Faculties and trainees of college participated in prayer for Father of Nation 'Mahatma Gandhi' on 30 January 2020 at B.R.A.

Seminar /Conference Presentation

Swati Sanyal delivered Lecture in a State level Seminar organized by Kurukshetra University in Collaboration with NCTE on "Inclusive Education in Letter and Spirit on 9 Nov. 2019; conducted a session on "reading for all UDL approach" in Punjab University on 13th December, in MHRD course on Learning disability; acted as resource person in the Hands on disability training organized by SCERT and Inclusive Education Branch of GNCTD on 28th February, 2020.

Sudeep Kumar Dubey acted as resource person at Zonal Workshop at Vision, Faridabad on 23 Nov 2019; conducted master trainers training under Sarva Shiksha Abhiyan (SSA) at Bhagalpur, Bihar 29 – 30 Dec 2019.

Dr. Pubali Agarwal contributed as a Resource Person in the session on "ICT and Children with Special Needs" in the workshop for the in-service Special Educators, organized by In-service Teacher Education Institute, Tech-Mahindra Foundation, on 6th August, 2019; conducted a workshop on the Validation of the Mobility Cane for Persons with Visual impairment developed by the Blind Relief Association, Delhi, on 10th August, 2019, organized by the Blind Relief Association, Delhi; chaired a Scientific session on "Adapted Physical Education" in the International Conference organized by Amity Institute of Rehabilitation Sciences, Amity school of Physical Education and Sports Sciences, Amity University, UP and Special Olympics Bharat held on 12th September, 2019; contributed as a Resource Person in the session on "Blended Learning and Academia: Strategies and Models for MOOCs and OERs" in the National Seminar organized by National Law University, Delhi, on 23rd November, 2019; contributed as a Resource Person in two sessions on "Cerebral Palsy and Vision Rehabilitation" and " Role of Assistive Devices in the Education of children with special needs" in the CRE Workshop organized by Indian Academy of Cerebral Palsy, SVNIRTAR and CRC, Guwahati on 15th November, 2019.

National/International MoU Signed

With Indian/ Foreign Universities

College has close collaboration in terms of delivering Guest lectures, Paper setting, Examination, with Jamia Millia Islamia, IGNOU, DIET, NCERT, RCI, and NIEPVD etc.

Placement Details

Number and percentage of students placed: 50%

Number of Companies visited for campus recruitment: Various NGOs & Public/private schools from Delhi & other states requested for Special teachers from the college.

Extension and Outreach Activities

2nd Year students of B.Ed Spl. Edn-V.I carried out awareness workshop on inclusion of persons with disabilities in various schools of Delhi through Nukkad Natak.

Library development

Total Number of Books (Print + Braille): 4473

Print Journals on Special Education as well as Education: 20

Total Numbers of Books added during 2019-2020 : 16

Faculty Strength

Permanent: 4

DYAL SINGH COLLEGE (DAY)

Major Activities and Achievements

This year, the college is imparting education to over 5,700 students, including 31 foreign students from Afghanistan, Tibet, Nepal, UAE, Mauritius and Russia. The college has been selected as one of the centres for evaluation of scripts of University examination and is also providing infrastructure for conduct of University Examination/classes for students of School of Open Learning, University of Delhi & IGNOU. As student welfare measures, economically deprived students are granted stipend, reserved category students are allowed to keep books from college library for the entire semester, books/study material have been added to the library for students aspiring to enter services, special equipment has been added to augment educational services for differently-abled persons. Counselling sessions are held by trained counsellors for benefit of students. The College is providing IT based services to Visually Impaired Student and Faculty members. NIRF adopted by MHRD, Government of India ranked our college as 21st in overall ranking for the year 2020 in the category of Colleges. The college received Certificate of Recognition for exemplary leadership in education and strong career learning environment. The college was awarded Asia's Education Award 2019 from IBC INFOMEDIA PVT. LTD. The college contributed and Supported the Tide Turners Plastic Challenge 2019. Dyal Singh College is registered with World Wide Fund for Nature – India of youth volunteering program ECHO. The Placement Cell of the college has been awarded the 3rd position in Academics category from Delhi College Awards 2019. 119 out of 168 academic prize winners have excelled by achieving more than 75% marks and 30 classes of 64 registered more than 90% pass percentage.

Honours/Distinctions

Dr. P. Chitralekha was awarded with Anil Sadgopal CUBE Award 2019 for Popularization of Science & Cultivation of Scientific Temperament, by TIFR, Mumbai.

Dr. Nellie Laisram was awarded the D. D. Kosambi Teacher Mentor award 2019 for exemplary contribution to collaborative biology research by Collaboratively Understanding Biology Education (CUBE), TIFR, Mumbai.

Dr. Neeta Tripathi was awarded Best Research Paper Presentation Award in World History Conference.

Dr Ruchi Gupta, from Department of Economics was selected for Associate NCC Officer (ANO) three months residential training by the Indian Army at the Officers Training Academy (OTA), 2 Gwalior. She successfully completed her course with an overall *A grade* and has been accorded the rank of *Lieutenant*, making her one of the very few teachers in Delhi University to earn the coveted rank.

Dr Vandana, from Department of Chemistry participated as subject expert for the preparation of Chemistry dictionary by CSTT, Ministry of HRD.

Students with Distinctions

Ms Kavita Kumari of B.Sc. (H) Mathematics scored 9.5 points as highest among final year students.

Kulvinder Singh & Ramandeep Kaur participated in Guru Nanak paper reading competition at the Annual Fest of Mata Sundri College and won second prize as a team by winning a trophy and cash prize.

For the first time 16 NCC cadets were selected for CM rally 2020 and 27 cadets for Army Attachment Camp.

Solanki, Harshit Kumar, Sagar and Mahi scored Gold in Boxing Championships.

Hemant and Nitish Yadav secured Gold in Athletics.

Publications

Chauhan, J., A. Goel (2020). Feature-Based Analysis of Social Networking and Collaboration in MOOC. International Journal of Distance Education Technologies (IJDET) 18(2), pp-18. DOI: 10.4018/IJDET.2020040103

Droliya, P., A.K. Nain, (2019). Densities, speeds of sound and excess properties of benzonitrile + methyl methacrylate, or + ethyl methacrylate, or + butyl methacrylate binary mixtures at temperatures from 293.15 to 318.15 K, *J. Chem. Thermodyn.*, 132, 142-154.

Gupta, J., A.K. Nain, (2019). Physicochemical study of solute-solute and solute-solvent interactions of homologous series of *α*-amino acids in aqueous-isoniazid solutions at temperatures from 293.15 to 318.15 K, *J. Mol. Liq.*, 278, 262-278.

Bisht, Y., A.K. Nain, (2019). Study of Kirkwood-Buff integrals of selected polar and nonpolar amino acids in aqueous-streptomycin sulphate solutions at 298.15 K, *Indian J. Chem. A*, 58, 281-28.

Bhattacharya A., Sharma N., Bhattacharya N., Senapati S. (2019) In-silico Targets in Immune Response. In: Kumar S., Egbuna C. (eds) *Phytochemistry: An in-silico and in-vitro Update*. Springer, Singapore. https://doi.org/10.1007/978-981-13-6920-9_21

Babbar, S., M. Gupta, N. Dohare, A. Goel, R. Gupta and S. Nanda (2019). Pollution controlling ability of plant species growing on college campus in Delhi, India. *Pollution Research* 38 (November Supplementary Issue) : S23-S29.

Pandey, P.K. (2019). A finite difference method for solution of nonlinear two point boundary value problem with a Neumann boundary conditions, *Transylvanian Journal of Mathematics and Mechanics* 11(1-2), 155-161.

Garg, C., Sharma, A.K., A. Gupta, A., Kumar, P. (2019). Anisamido-Polyethylenimines as efficient nonviral vectors for the transport of plasmid DNA to sigma receptore bearing cells *in-vitro*. *Journal of Pharmaceutical Sciences*, 108: 1552-1558.

Vats T.K., V. Rawal, S. Mullick, M.R. Devi, P. Singh and A.K. Singh, (2019). Bioactivity of *Ageratum conyzoides* (L.) (Asteraceae) on feeding and oviposition behaviour of diamondback moth *Plutella xylostella* (L.) (Lepidoptera: Plutellidae). *International Journal of Tropical Insect Science*; 39 : 311-318.

Arya, P.V. (2020). Recent diversity and potential biological control studies on major ornamental *Ficus* sp. Defoliating moth *Bombycis juuTrilocha* (= *Ocinara*) varians (Walker) (Lepidopetera : Bombycidae). *J. Exp. Zool., India*; 23(1): 215-217.

Journals

Number of College teachers serving as Editor(s)/members(s) of Editorial Board : **20**

Research Projects

Central Council for Research in Homoeopathy (CCRH), New Delhi : (2017-2020) : Physicochemical Studies of Homoeopathic Drug Formulations by using Volumetric, Acoustic, Viscometric, Optical and Conductometric Measurements : Rs.44,76,800/-

Indian Council of Social Science Research (ICSSR), New Delhi, (2018-2021), Agricultural Development, Land Degradation and Rural Sustainability in Border Areas of Uttar Pradesh: A Case Study of Siddharthnagar District :: Rs. 8,50,000/-

Indian Council of Social Science Research (ICSSR), New Delhi : Kautilya's e-Governance : (2018-2019), Rs. 3,12,000/-

Indian Council of Social Science Research (ICSSR), New Delhi (2019-2020), Analyzing the Implementation of Swachh Bharat Abhiyan (G) : A study of West Champaran District of Bihar, Rs. 3,80,000/-

Indian Council of Social Science Research (ICSSR), New Delhi : (2018-2020), Vanvasi Kalyan Ashram, Rs. 6,45,000/-

Seminars Organized

Recent Trends and Ethics in Biological research : 7 March, 2020 : IQAC, Dyal Singh College (University of Delhi), Delhi.

Molecular modeling and introduction to Spartan 18 research software and Odyssey Software : 13 Nov. 2019 : IQAC, Dyal Singh College (University of Delhi), Delhi.

GST and Customs Law : 30 Jan. 2020 : Department of Commerce, Dyal Singh College (University of Delhi), Delhi.

Monitoring Landscape Dynamics using QGIS and R Studio : 6 Feb. 2020 : Department of Geography, Dyal Singh College (University of Delhi), Delhi.

Conference Organized

Prof. S. C. Rai, Department of Geography, University of Delhi : Water resource Sustainability.

Dr. Soma Sen Roy, Scientist F, Indian Meteorological Department (IMD), Delhi on “Climate Change”, 13 September, 2019.

Prof. Rupam Kapoor, Department of Botany, University of Delhi : Arbuscular Mycorrhizal Fungi : Most Loyal Friends of Plants : 31 Aug. 2019.

Prof. J.P. Sharma, Former Head, Department of Commerce, University of Delhi : Recent Corporate Governance Failures : 15 January, 2020.

Dr. Pratima Solanki, Special Centre for Nanosciences, JNU, New Delhi : Biomedical Applications of Nanomaterials : 21 January, 2020

Seminar/Conference Presentations

Ankita and A. K. Nain presented a paper entitled, “Investigation of volumetric and acoustic properties of drug isoniazid in aqueous-glucose solutions at different temperatures, *National conference on Recent Trends and Advancements in Chemical Sciences*, March 29-31, 2019 (Bhaskaracharya College of Applied Sciences, University of Delhi, Delhi).

Ankita, A.K. Nain presented a paper entitled, “Study of solute-solute and solute-solvent interactions of drug semicarbazide hydrochloride in aqueous-glucose solutions at different temperatures”, *National seminar on Technology for Environmental Sustainability, Socio-Economic Responsibility and Associated Entrepreneurial Opportunities in 21st Century*, March 8-9, 2019 at Sri Aurobindo College, University of Delhi, New Delhi.

Ankur, A. Gupta, S. Mullick and R. Goel presented a paper entitled, ”Nano-encapsulated bio-pesticide formulation : Synthesis, characterization and bio-efficacy of nano-encapsulated lemon grass essential oil against *Spodopeteralitura* (Fab.) (Lepidoptera: Noctuidae). International Conference on Nano Science & Technology (ICNOSAT 2020) 5-7 March 2020, DST Nanomission, Kolkata.

Chaudhary, N. and A.K. Nain presented a paper entitled, ‘Densities, ultrasonic speeds, and excess properties of binary mixtures of polyethylene glycol 400 with some acrylates at different temperatures, *National seminar on Technology for Environmental Sustainability, Socio-Economic Responsibility and Associated Entrepreneurial Opportunities in 21st Century*, March 8-9, 2019 (Sri Aurobindo College, University of Delhi, New Delhi).

Gupta, J. and A.K. Nain, presented a paper entitled, “Apparent molar properties and viscometric studies of interactions of some polar amino acids in aqueous-semicarbazide hydrochloride solutions at different temperatures, *National conference on Recent Trends and Advancements in Chemical Sciences*, 29-31 March 2019 (Bhaskaracharya College of Applied Sciences, University of Delhi, New Delhi).

Rani, S. presented a paper entitled, “Gadgetonization and its Geographical Implication on Society and Change: Adaptation and Challenges. 7th Northern Regional Social Science Congress on Social Sciences and Nation Building: Issues and Challenges, organized jointly by ICSSR-NRC, New Delhi and U.P. Rajarashi Tandon Open University, Prayagraj, 2-4 Feb. 2020

Singh, K.J. presented a paper entitled, "Guru Granth Sahib vich Sabhyacharak Chetna. World Punjabi Conference at Guru Nanak Dev University, Amritsar, 17 February 2020.

Singh, S. presented a paper entitled, "Revisiting the democratic process of India. International Seminar organized by Catholic University of America, Washington, USA at Washington, 13 September 2019.

Singh, U.S. presented a paper entitled, "The revolt of 1857 : A case study of Rohtak (Haryana). Haryana History Congress (Estd. 324/2016), 4th Session held in Rohtak on 11-12 November 2019.

Vats, T.K., V. Rawal, A.K. Singh and S. Mullick presented a paper entitled, "Feeding deterrence of *Plutellaxylostella* (L.) (Lepidoptera: Plutellidae) by Foliage Extracts of *Calotropisprocera* R. Br (Asclepidaceae)". National Conference on Insect-Plant Biology in 21st Century, Organized by department of Zoology, Deshbandhu College (University of Delhi), Delhi. during 4-5 November 2019

Placement Details

Number of percentage of students placed 150

Number of Companies visited for campus recruitment 130

Library Development

The college Library added 1509 books in the current year. The total library collections reached 1,00,882

Faculty Strength

Permanent: 150

Ad Hoc: 109

Financial Allocation and Utilization

Grant sanctioned: Rs. 80,74,96,624/- (Including prev. Balance 13,36,30,624/-)

Utilized: Rs. 80,04,94,205/-

DYAL SINGH EVENING COLLEGE

Major Activities and Achievements

Dyal Singh Evening College (a full-fledged day college), butted with activity throughout the academic session 2019-20. With more than 90 faculty members incessantly involved in academic upgradation, this year over 100 articles/ books were published/presented by teachers in International and National Journals. Over 50 events, talks, seminars, webinars, competitions, workshops were organized in the college, attracting a crowd of 5,000 students across various colleges. Art & Culture Association, F.I.N.A., Placement Cell, COMHUB - Dept. of Commerce, Literary Meditations -Dept. of English, Dept. of EVS, Rajniti Vigyan Parishad- Dept. of Political Science, Virsa- Department of Punjabi, Society for Animal Rights, North East Students' Society, ECO Club and NSS have worked towards the same. Students of the Art & Culture Association of the college won over 200 prizes during the academic year. Students also won numerous accolades across diverse sporting events. The college organized online activities during the period of lockdown.

Students with Distinctions

Karan Hans of B.Com. (Hons) V semester secured a CGPA of 7.986

Lakshay Singh Bhandari of B.Com. (P) V semester secured a CGPA of 7.985

Deepak Kumar Singh from B.Com. (P) V semester secured a CGPA of 7.909

NanditaPundir from B.Com. (P) V semester secured a CGPA of 8.167

Mantasha Mirza from B.Com. (P) V semester secured a CGPA of 8.106

Publications

Poonam Gupta. (2019). Holding Effect in Select Asian Stock Market. *Business Analyst*, Volume-40.

Sanjay Kumar Singh (2019) Enhancing Portfolio Returns through Core Satellite Investing Strategy. *Think India*. Volume-22, Special Issue -27

Sumita Puri (2020) Indian Diaspora Writer SunitiNamjoshi : A Voices of Radical Feminism. *Prestige Book International New Delhi 2020*.

Abha Singh. (2019). Free Souls Under The Veil Critical Responses to Salman Rushdie, AttiaHoswin, Nagwib Mahfouz and SharmilaSayyid's Novels. *Lapis Lazuli* Vol-9 No.1.

Prakash Chand. (2019) Developing Sustainable Cities: Major Initiatives and Experiments in Urban India", *Socrates*, (3 and 4).

Singh. S, Malhotra. S, et al.(2020). Peroidases from an Invasive Mesquite Species for Management and Restoration of Fertility of Phonic- Contaminated Soil. *Journal of Environmental Management* ,256, 109908

Pawan Kumar (2019). Self and Nation in the Light of Karma: A Critical Analysis of W.B Year 's Plays Cathleen in Hoalihan and Purgatory. *Journal of Irish Studies (JIS), IASIL Japan*, Vol. XXXIV, pp. 53-59

Seminars Organized

Ms. Gauri Maulekhi, an animal rights activist and winner of Women Power Award, "*Pehel- An Event for Animal Rights*", 13 November, 2019.

Ms. Shilpy Talwar, a senior counsellor, "*Overseas Education*", 8 November, 2019.

Chandeshwar Prasad Chandravanshi, Member of Parliament from Jahanabad, Bihar, "*Youth Parliament*", 15 February 2020.

International Seminar, *Vedic Gyan Prampara Mai Samajik Samrastha*, at World Sanskrit Conference, November 2019.

Seminar on *Choosing between the Right Exam- CAT vs GMAT vs GRE and Decoding CAT*, in Association with Career Launcher on February 21, 2019

Conferences Organized

Two-Day International Conference "*Theorizing Gandhian Politics, Gandhi Study Circle*", Dyal Singh Evening College, University of Delhi. 29 February 2020

Seminar/Conference Presentations

Ambika Nayyar, "*Financial Literacy amongst working Women in Delhi*". International Conference on Entrepreneurship and Management challenges , issue and Opportunities in the Global Economy Organized by Faculty of Management and International Trade and Commerce, Vivekananda Global University , Jaipur .

Brijesh Kumar, "*Ram Katha Mei Vaishvik feevan Moolya*", One Day International Seminar by Ayodhya Research Institute Culture Department UP. 23rd November 2019.

Jnanendra Narain Singh, "*Gandhi Literature and Library*", International Seminar on Revisiting Nationalism Multiculturalism and Democracy Nov 2019.

Md.Sajid Hussain, "*MuzzafarPur iki Shayarr*", Urdu Management Language Department Patna.

Prithvi Raj Thapar, "*The Relevance of Guru Nanak's Philosophy in Present Scenario, International Conference*", Toronto Canada.

Prakash Chand, "*Mahatma Gandhi's Views on Environment.. A Panacea for Human Survival*", Lecture in A Two Days International Conference on Theorizing Gandhian Politics, Gandhi Study Circle, Dyal Singh Evening College University of Delhi.

Sajid, "*Dilli Collegon ki Khidrned*", Urdu Department, University of Delhi.

Placement Details

Number of companies visited for Campus Recruitment: 65

Library Development

The college library has been consistently contributing towards the expansion of knowledge of the students and teachers alike. The library is host to a total of 68,242 books. 1,650 of these have been added in the academic year 2019-20. The library also offers 14 different newspapers for its readers. A total of 27 periodicals are available in the library. The library also provides e-resources for the faculty and students through the N-list website. Currently, the library is also undergoing a digitization process to help teachers and students access resources of the library online

Faculty Strength

Total 92+ 21(new) =113

Financial Allocation and Utilization

Grant received in Rs. 2614.18 Lakh

Grant utilized in Rs. 2603.65 Lakh

FLORENCE NIGHTINGALE COLLEGE OF NURSING

Major Activities and Achievements

This Nursing Institution is upgraded to Florence Nightingale College of Nursing with the approval of Dept. of H&FW, Govt. of NCT of Delhi. w. e. f 2019 to provide B.Sc. Nursing course extends over a period of four academic years, 8 semesters inclusive of Internship. Currently annual intake is 70 seats plus 10% EWS quota G.T.B. Hospital is an approx.1500 bedded tertiary care hospital and is one of the biggest hospitals in East Delhi. This hospital also receives large number of patients from the adjoining states, besides Delhi & NCT Region. University College of Medical Science, DEM, DSCI, attached to this Hospital. The second batch of 77 students was admitted in 2020-2021. Due to COVID19 pandemic, the classes were conducted in

a blended mode (online and offline) for both batches. Orientation Program was organized on 20 August 2019 for the new batch of students to welcome them into the fold of FNCON family. Farewell party was organized for the final year students 2016-2019 batch. In August the students participated in an essay competition followed by a quiz competition. The students expressed their love and gratitude to their teachers by celebrating Teacher's day on 5 September 2019. Deepawali celebration was celebrated with Puja and festivities on 27 October 2019 with artistic Rangoli and Diyas. Saraswati pooja was held in the College of Nursing on 30 January 2020. All staff and students participated in the pooja with a great fervor. 5 February 2020 saw the students participate in the AIIMS annual day. Students participated in Group/solo song, group dance, fashion show, mehndi and rangoli competition, face painting and talent hunt. Students came out in full swing and participated enthusiastically. FNCON organized sports competition on 20 February 2020 with events like 100 meter flat race, 4 x 100 meter relay race, Hurdle race, lemon and spoon race, shot put, discus and javelin throw, and long jump. The students and staffs were participated with zest and energy. The event concluded with sumptuous lunch.

Library Development- 289 books are added to the Library during Academic year 2019-2020.

Faculty Strength- 23

GARGI COLLEGE

Major Activities and Achievements

The college was ranked 16th at all India level by NIRF and was ranked 9th for Arts Stream and 14th for Commerce and Science Streams by India Today. "World Award for Value Education 2020" has been conferred to the College by Indian Institute of Ecology and Environment". Certificate of Recognition has been awarded to Gargi College for exemplary leadership in Education and for the development of strong Career Learning Environment for students by "World Education Review" and "India International Education Council". Gargi College is the only DU College chosen for Incubation, Experimentation and Demonstration of a Green Future -2019 by Centre for Science and Environment. Gargi College was one amongst the five colleges (All over India) selected for publication in "Green Campus Compendium".

Honours/ Distinctions

Dr. Alka Garg, Department of Physics, received Best Performing Teacher Award instituted by Directorate of Higher Education, Government of NCT of Delhi.

Dr. Sweta Mishra, Department of Political Science, received an award from Prof. Yogesh Kumar Tyagi, Hon'ble Vice Chancellor, University of Delhi, for outstanding performance in promoting Gandhian values among youth/fraternity through a well running Gandhi Study Circle in college.

Dr. Anita Yadav, Department of Hindi, व्यंग्य लेखन के क्षेत्र में उत्कृष्ट कार्य हेतु शोभना सोसाइटी द्वारा 'युवाव्यंग्य सम्मान' से सम्मानित।

Dr. Ruchika Sharma, Department of History, received Nehru Memorial Museum and Library Academic Research, Translation and Book Writing Fellowship to write her Book titled "Bequeathing Intimacy, Servicing the Empire: Concubinage, Race and Law in Early Colonial Bengal".

Dr. Varun Bhandari, Department of Business Economics, received an International Award under the category "Most Cited Research" from SAGE Publishing and Fortune Institute of International Business

(FIIB) also he was acknowledged as a “Best Professor” in Business Economics discipline from Dewang Mehta National Education Awards.

Three teachers were awarded Ph.D. this year, Dr. Prachi Kalra, Department of Elementary Education, Dr. Ganesh Manjhi, Department of Economics, and Dr. Swati Bajaj, Department of Zoology.

Dr. Anjni Anand, Dr. Anjana Rustagi, Dr. Renu Soni, and Ms. Rupal Arora received the best paper/poster award at various conferences.

Students with Distinction

Following 5 students were awarded the Science Meritorious Award by University of Delhi.

Ramya Vishwanath of B.Sc. (H) Chemistry

Garima Jain of B.Sc. (H) Zoology

Muskan Khanna and Arjyama Bordoloi of B.Sc. (H) Physics

Apoorva Vardhan of B.Sc. (H) Botany

Publications

Tammineni, R., Gulati, P., Kumar, S., Mohanty, A. (2020). An Overview of Acyclotides: Past, Present and Future. *Phytochemistry*. 170: 112-215.

Agarwal, P., Khurana, P. (2019). Functional characterization of HSFs from wheat in response to heat and other abiotic stress conditions. *Functional & Integrative Genomics*. 19 (3): 497-593.

Saini, A. et al. (2019). Identification of Common Food Adulterants in Selected Food Items collected from Local Grocery Stores and Supermarkets. *Journal of Agricultural Engineering and Food Technology (JAEFT)*. 6(1): 79-82.

Saroj, M.K., Payal, R., Jain, S.K., Rastogi, R.C. (2020). Study of Prototropic Reactions of Indole Chalcone Derivatives in Ground and Excited States using Absorption and Fluorescence Spectroscopy. *Journal of Molecular Liquids*. 302: 112-164.

Kumar, P., Sharma, B. (2019). Second Order Duality for Variational Problem via Efficiency of Higher Order. *International Journal of Mathematics in Operational Research*. 14 (01).

Kumar, N., Faizan, I., Shama, P., and Dohare, R. (2019). Temperature and Rainfall Dependent Mathematical Modelling for Progression of Zika Virus Infection. *International Journal of Mathematical Modelling and Numerical Optimisation, Inderscience*. 9 (4): 339–365.

Sharma, S., Sharma, R., Singh, B., Upadhyay, V., Mani, I., Tripathi, M., Kumar, P. (2019). A Prospective Study of NTM Disease among TB Suspects at a Tertiary Care Centre in North India. *Indian Journal of Medical Research*. 150: 458-467.

Tyagi, K., Vasdev, K. (2020). The Science of the Mighty ‘Small’: Nanobiotechnology in Human Well Being. *International Journal of Bio-Technology and Research (IJBTR)*. 10(1): 41–48.

Khan, S., Pant, N. (2019). Are millennials driving changes in the sports industry of modern India. *International journal of Physiology, Nutrition and Physical Education*. 4: 1008-1010.

Utreja, D., Rizvi, S.H. (2019). Exploring the relationship between state, trait anger and anxiety in anxiety disorder patients. *The International Journal of Indian Psychology*. 7(1).

Journals

Number of college teachers serving as Editor(s)/ Member(s) of Editorial Board: 03

Seminars Organized

Seminar for GRE/GMAT aspirants by Jamboree, 'Shattering the myths of CAT' by Endeavour Careers

Dr Madhusudan Solanki (Psychiatrist) Geshe Dorji Damdul La, the Director of Tibet House and Dr Divya Parashar (Psychologist), "Magic Shop: Cultivating Compassion, Empathy and Hope", 22 January 2020.

Conferences/workshops Organized

Department of Physics organized a two-day summer workshop in July, which provided interdisciplinary flavors of research on topics such as crystal structures, open sources, X-ray diffraction

Department of Political Science organized a workshop on "How to prepare for UPSC, Civil Service Examination with NEXT IAS" on 23 October 2019.

Department of Zoology organized A hands-on workshop in biological techniques on December 13 - 14, 2019.

An Inter-College Hands- On- Workshop "Biotechnology" was conducted under DBT- Star College Scheme & IQAC on 23 -24 December 2019.

Department of Botany organized an Inter-college workshop for lab staff on 'Laboratory Methods and Techniques' on 10 December 2019.

Seminar/Conference Presentations

Dr. Geeta, presented a paper entitled "Identification of Common Food Adulterants In Selected Food Items Collected From Local Grocery Stores And Supermarkets" at an International Conference on "Contemporary Issues in Integrating Health and Nutrition with the Emerging Areas of Food Technology, Agriculture, Environment and Allied Sciences" held at Shyama Prasad Mukherji College for Women, University of Delhi, New Delhi on 6 April 2019

Dr. Anjali Siwal presented a paper entitled "Beating the Curve and Fostering Innovation" in a conference organised by Jagannath International Management School (JIMS), Kalkaji, New Delhi in Partnership with the PHD Chamber of Commerce and Industry and AMDISA, Association of Management Development Institution in South Asia on 15 February 2020

Dr. Anjini Anand presented a paper entitled, "Social Support and Role Overload as Predictors of Work-Family Conflict: A Study of Employees Working in HPWS at 7th All India Commerce Conference (AICC) organised by Department of Commerce, University of Delhi on 17-18 Jan 2020

Dr. Geeta Kichlupresented a paper entitled "Corporate Social Responsibility and Human Development Index Linkages" in the First International Conference on "Corporate Governance: Issues, Challenges and Changing Paradigms" organised by Global Research Foundation for Corporate Governance at India International Centre, New Delhi, India on 7-8 September 2019

Dr. Tanjot Singh presented a paper entitled, "Opportunities and Challenges of Urbanization in India" in Multi-Disciplinary International Conference organised by Vallabh Government P.G. College Mandi in collaboration with IIT Mandi, Sardar Vallabhai Patel Cluster University Mandi and Science & Management Society, Himachal Pradesh during 10-12 August 2019

Dr. Chhaya Sahney presented a research paper entitled, "Linguistic Apartheid in Classrooms and Beyond" in the 10th Annual International Conference of the Comparative Education Society of India (CESI) on 10 December 2019

Dr. Jyoti Raina, Department of Elementary Education presented a paper entitled, "A View from Education Discipline", in session 'Interdisciplinary Domains of Knowledge Production: Transactions and Transmissions' during National Multidisciplinary Conference on Emerging trends in tertiary education: Assessing challenges and possibilities organised by Department(s) of English, Chemistry and History at Gargi College, New Delhi on 29 March 2019

Dr. Prachi Kalra presented a paper entitled "Children's Stories: Writing in Government Schools" at a National Conference on "Writing and Illustrating for Children from Marginalised Communities" on 23 August 2019 at Muskaan, Bhopal

Dr. Sailaja Modem presented a research paper entitled "Green Sense at a Delhi College, Eco-Audit and Best Practices for Sustainable Development" in the session "AA&GG Audits and other Quality Measures of HEIs" held at Shivaji Mahavidyalaya, Udgir, District Latur (M.S.) in collaboration with National Assessment and Accreditation Council (NAAC), Bangalore on 30 January 2020

Dr. Krishna Meena, Department of Hindi presented a paper entitled "Guru Nanak aur Sunderdas ke Kavya mein Samaj Darshan ke Tatva: Ek Anusheelan" at International Seminar on "Guru Nanak Dev: Jeevan Mulya aur Darshan", jointly organised by Research and Consultancy Cell of P.G.D.A.V College (Evening), Delhi and Dakshina Foundation on 18-19 October 2019.

Placement Details

Number and percentage of students placed: 125 (27.05%)

Number of companies visited for campus recruitment: 85

Extension and Outreach Activities

NSS Gargi College organised fourteen cleanliness drives in and around college campus this year. Apart from these drives, activities like seminar, pledge, cloth bag distribution drive were held under 'Swacchta Hi Seva'. Additionally, sapling distribution drive and competitions like poster making, slogan writing and creative writing were reorganised during "Swacchta Pakhwada" where participants blended ideas and creativity towards clean and green India. Furthermore, NSS volunteers also attended a number of lectures like, the launch of iSAFE, lecture on public diplomacy, and memorial lecture on Arun Jaitley, road safety and a workshop by WWF on Plastic Challenge. To spread awareness on voting during elections, an 'Electoral Verification Program' in collaboration with SVEEP was organised, which consisted of several seminars, oath takings, and competitions. The flagship event: Blood Donation Camp and the Annual NSS fest: Zistatva saw an overwhelming response this year with performance by NGOs and NSS stall. NSS volunteers also work with various NGOs like The Vidya Foundation, Connecting Dream Foundation, The Vidya Jyoti Project, JAAV, Wishes and Blessings, AADI, Cheshire Home, and Asiad Village to teach the students and assist them. Throughout the session, volunteers have engaged themselves in uplifting the underprivileged in one way or the other.

Library Development

Total Books- 358

Periodicals - 46 i.e (41+5*)

* excluding newspaper including magazines which is of total Rs.108274

E books- 164300+ as per available data of UGC inflibnet and DULS

E journals - 6000+ from inflibnet membership and DULS membership

To facilitate the purchase of books, directly from the publishers, an annual book fair is held in the college. The library subscribes to 22 National Magazines, 2 International Magazines along with 12 National journals 5 International journals. Gargi library also facilitates students and teachers by way of providing information through online mode by providing open e-resources/open access journals link and use of social media platforms for academic purposes. This is besides the e-journals accessible through UGC INFLIBNET and Delhi University Library System.

Faculty Strength

Permanent: 135

Ad-Hoc: 81

Librarian: 01

Financial Allocation and Utilization

Grant Sanctioned ₹ 68,34,34,000

Utilized ₹ 62,92,25,192

Other Significant Information

Mr Dinesh, Lab attendant, Department of Microbiology, has qualified NET Examination in MA(Pol Sciences).

Ms. Sonam B.A. (P) 1st Year won the Gold Medal in All India Kurash Championship (Junior) 2019 under the aegis of Kurash Association of India.

HINDU COLLEGE

Major activities and achievements

Hindu College ranked 3rd in NIRF All India Ranking 2020; In India Today Best Colleges Ranking 2020, the College got the 1st All India Rank in Science and Arts Stream, and 2nd in Commerce Stream. The year saw several notable achievements for the College and a number of successful events such as *Vaktavya '20* – the two day Annual Conclave, *Mushairah-e-Hindu Aaghaaz'20* – the Hindi edition of the Annual Literary Festival, and *Samvaad'20*. The College also organized events like the celebration of the International Yoga Day, Yamuna Cleanliness Drive, Blood Donation Camp, National Voters' Day, Swachhta Pakhwada, Vigilance Awareness Week, Tree Plantation Drive, and Suruchi - The Annual Diwali Mela.

Hindu College strengthened its claims to be recognized as a truly global institution by collaborating with National University of Singapore to host the 'Asian Undergraduate Summit 2019'. The theme of the summit was 'Leadership in a Complex World: Creating Sustainable Synergies'. The unique feature of this summit was the participation of students from universities of Singapore, Thailand, Indonesia and South Korea, who joined Hindu College students for the Hindu leg of the Summit.

Honours/Distinctions

Two faculty members were awarded Ph.D. degrees this year.

Dr. Ravi N. Singh, Assistant Professor, Department of Sociology, completed a fellowship in February 2019 (2018-19), granted by Nostra Aetate Foundation, Vatican for study and research in Vatican and Italy.

Dr. Rachna Singh, Associate Professor, Department of Hindi, served as a visiting professor at the University of Lausanne, Switzerland, for a semester from February 2019 to June 2019.

Dr. Pallavi Saxena, Assistant Professor in Environmental Sciences, was selected as Chair of South-Asian and Middle-East Region for Early Career Scientists Network of iLEAPS Community, UK from 1Jan 2020–31Dec 2021.

Dr. Neera Sharma, Assistant Professor, Department of Chemistry, was elected as an Executive Member (North India) for the 'National Association of Chemistry Teachers', Homi Bhabha Centre for Science Education, TIFR, Mumbai.

Dr. Manavi Yadav, Assistant Professor, Department of Chemistry, was awarded the STE Young Researcher Award at National Conference on "Water Crisis, Public Health and Sustainable Solutions & First Annual Meet of Save the Environment", held during 21-22 October 2019.

Students with distinctions

Rahul Kasaudhan, B.A.(Hons.) Hindi secured First Position in Delhi University

Sushant Roy, B.A.(Hons) Sanskrit secured First Position in Delhi University

Manu Goswami, B.A.(Hons) Music secured First Position in Delhi University

Hritika Gupta, B.Sc. (Hons) Statistics secured First Position in Delhi University

Publications

Antony, D.M., Purushottama Bilimoria. (2019). Raimon Panikkar: A Peripatetic Hindu Hermes'. Researcher: *European Journal of Humanities & Social Sciences*. 2(3): 9-29. (ISSN online 2593-7138, ISSN print 2593-7111)

Ashdhir, P. (2019). Simulating the Phenomenon of Interference using SCILAB; *IAPTPhysics Education*, 35 (2): ISSN Number: 0970-5953.

Choudhary, A. (2019). The Horse and the Mughal State Formation: The Making of an Imperial Political Culture'. *IAS Review*, XXV (1) ISSN:0972-1452.

Gupta, A. (2019). 'State of Unity or Opportunity? An argumentative Review'. *International Journal for Research in Engineering Application and management*.

Pallav(2019) 'अलविदानामवरसिंह.' *मधुमती* ISSN 2321-5569

Saxena, P, A. Srivastava, M. Tyagi, and S. Kaur (2019). 'Impact of Tropospheric Ozone on Plant Metabolism – A Review'. *Pollution Research*. 38(1): 175-180.

Saxena, P and Saurabh Sonwani (2019). *Criteria Air Pollutants and their Impact on Environmental Health*. Springer-Nature, Singapore, ISBN 978-981-13-9992-3.

Singh, R.N. (2019). 'Induismo e cremazione: Altri addii'. *Socrem News. Quadrimestrale Per I Soci Della Società Per La Cremazione Di Torino*, Number 2, Anno XXV, Maggio. (Translated in Italian by Dr. Ana Cristina Vargas from the original in English called 'Hinduism and Cremation: Other goodbyes' for So. Crem [Society of Cremation]).

Vijayan, P.K. (2019). *Gender and Hindu Nationalism: Understanding Masculine Hegemony*. New York: Routledge.

Yadav, M and Rakesh K. Sharma. (2019). 'Heterogenized Nickel catalysts for various organic transformations' *Current Opinion in Green and Sustainable Chemistry*. 15: 47-59.

Journals

Number of college teachers serving as editors(s)/ member(s) of editorial board: One

Research Projects

To promote research in college, this year the scheme of Interdisciplinary Research Projects was launched. 16 such projects, for 2019-2020, amounting to a total grant of Rs 37 lakhs were granted.

Projet funded by University of Birmingham, 2019 Confronting Last Mile Challenges in efforts to eliminate gender-based violence: a pilot study of community-based policing in Rajasthan, Dr. Chandrachur Singh, GBP 10000

Seminars Organized

Lahiri, Professor, History, Ashoka University, 'Creating Borders, Partitioning Heritage: Indian Archaeology After 1947.' 25 March 2019.

Ajit Pai, OSD Economics and Finance, NITI Aayog, 'Transforming India's Economy for Faster and Sustainable Growth', 6 August 2019.

Dr. Harjant Gill, Associate Professor, Anthropology and Criminal Justice, Towson University, USA "Coming of Age in Macholand: Multimodal Explorations of Media, Masculinity, and Migration in North India". Films screened: *Mardistan & Sent Away boys* (Dir. Harjanj Gill), 21 January 2020.

S. Annapoorni, Professor, Department of Physics and Astrophysics, University of Delhi, "The Wonder that is Nano", 5 September 2019.

Dr. Anil Koul, Director IMTECH, Chandigarh, 'Innovation in Global Public Health: The New Age Discovery', 22 February 2020.

Conferences Organized

National Conference entitled, 'Recent Trends in Chemical Sciences and RSC Workshop on Periodic Table: Boon for Mankind' organized by: Green Chemistry Network Centre, GCNC, Department of Chemistry, University of Delhi and Hindu College during 30 August to 1 September 2019.

National Conference entitled: 'रामानुजाचार्यकीसामाजिकएवंदार्शनिकमान्यताएँ', was organized by Sanskrit Department

International Conference entitled, '10th International Conference on Quality, Reliability, Infocom Technology and Business Operations (Towards Smart, Reliable and Sustainable Futures)- ICQRITBO-2019 was organized at Lalitpur, Kathmandu, Nepal during 18-21 December 2019

Seminar/Conference Presentations

Dr. Manoj Kumar Varshney presented a paper entitled, "On the estimation of life table functions with multi-state factors of HIV population" as poster-cum-oral presentation at the 11th International Conference on Extreme Value Analysis, at Faculty of Science, University of Zagreb, Croatia, 1 to 5 July 2019.

Dr. Soma M. Ghorai presented the keynote lecture, entitled "An insight into the evolutionary consequences of reptilian TLRs and their role in host-microbe interactions" at the International conference on Vaccine and Immunology, Dubai, UAE, 21 to 22 November 2019.

Dr. Reena Jain presented a paper entitled, "Dye degradation using Leaf litter: A Green Nanotechnology approach" at the International Conference on 'Advancement of Biotechnology in healthcare, byproducts and Environmental research' organized by Department of Biotechnology, GIET University, Gunupur during 13 to 14 December, 2019.

Dr. Ashma Sharma presented a paper entitled, "Post-colonial Ecocriticism and Utopianism in Sumana Roy's memoir How I Became a Tree" at the International Conference on 'Twenty-first Century Indian Woman: Representations and Expressions', organised by PGDAV College, University of Delhi during 12 - 13 March 2019.

Ms. Aarushie Sharma, presented a paper entitled 'The Technology of Toilets and the Imagination of a Clean India' at the International Conference of the Young Scholars Initiative (YSI), Asia Convening, Hanoi, Vietnam during 12-15 August 2019.

Dr. Shankar Kumar presented a paper entitled, "Cosmology, Cuisine and Ancient Indian Medicine" at the ICSSR funded National Seminar on 'The Idea of India: Intellectual Traditions in Indian Studies' organised by UGC - HRDC, Punjab University, Chandigarh on March 2019.

Dr. Devasia M. Antony presented a paper entitled 'The Advaita Dialectic of 'I (asmad) and 'You' (yushmad)': Towards a Re-Conceptualization" at the Two-Day ICPR National seminar on 'Renewing Indian Philosophy Through Vedantic Tradition' held at Sri Vishnu Mohan Foundation, Chennai during 14 - 15 September 2019.

Dr. Rameshwar Rai presented a paper entitled प्रमचंद: कल ,आजऔरकल"विषयपरबनारस at Banaras Hindu University on 24 February, 2020

Ms. Kritika Sharma presented a paper entitled, "Speaking From the Margins: The Grotesque Body in Jeanette Winterson's Sexing the Cherry" in a National Conference on '(Re) Defining Marginalities' organised by Zakir Hussain College (Evening), University of Delhi held on 16 March 2019.

Dr. Jagmohan presented a paper entitled, "श्रीभगवानकासुलभतमरूपअर्चावतार" at the National Conference on 'रामानुजाचार्यकीसामाजिकऔरदार्शनिकमान्यताएँ' organized by Department of Sanskrit, Hindu College, University of Delhi during 19 to 20 September 2019.

Other Inter Institutional Collaboration

The College has signed an MoU with the National University of Singapore, Singapore from 2011 onwards for a student and faculty exchange Programme. Under this MoU, students from NUS have been spending one semester each academic year. In its first year, the College is hosting students from University of Heidelberg, Germany and UBC, Canada through the affiliating University's MoU with the respective universities.

The College offers foreign language courses through MoUs and joint collaboration with well-known institutions such as Goethe Institute, Max Mueller Bhawan for German; Instituto Cervantes for Spanish, Alliance Francaise de Delhi for French and Department of Slavonic and Finno-Ugrian Studies for Russian.

Students under Exchange Programme

Mr. Johan Samaan, Heidelberg University, Germany for the course B.A(Hons) Political Science for one semester (July-December 2019)

Mr. Zachary Robinson, University of British Columbia, Canada for the course B.A(Hons.) History for one semester (July – December 2019).

Mr. Kohei Nakayama, Tokyo University of Foreign Studies, Japan for the course B.A(Hons) Sociology for one academic year 2019-20

Placement details

Number and percentage of student's details: 40%

Number of companies visited for campus: 52

Extension and Outreach Activities

Extension activities in the College are organised through the NSS, NCC and some other societies, prominent being the environment society (Panchtatva), The Equal Opportunity Cell (Ankur), Women's Development Cell (WDC), Enactus, etc. Various camps like Blood donation camp, Cleanliness drive, Cloth donation drive, Collection Drive, Scholarship drive, Awareness Drive, Swachh Campus Rally by NSS and Combined Annual Training Camp; representation in Republic Day Camp, Nau-Sainik Camp by NCC were organized camp for International Yoga Day; celebrated Surgical Strike Day, National Voter's Day. 28 cadets participated in Combined Annual Training Camp (CATC'19). 09 cadets cleared 'C' certificate and 17 cadets cleared 'B' certificate exam successfully.

Library Development

Total Budget 1058000/- (Book Fund) +1035500 (Library Development)

No. of books added 1191 Books

Faculty Strength: 163

Financial Allocation and Utilization

Grant sanctioned Rs.4974.80 Lakh

Utilized Rs. 5249.00 Lakh

HOLY FAMILY COLLEGE OF NURSING

Major Activities and Achievements

The academic session started with a fresher's party and talent show. Before clinical posting in Hospital, Lamp Lighting Ceremony was conducted where the students took Nurses' pledge to care effectively for the patients. Elections of (SNA) Students Nurses' Association body were held in August, 2019. SNA is involved in assisting the co-curricular activities of students and helping the students. Students participated in various cultural, sports and educational activities of SNA, organized at State level throughout the year. In October 2019 students actively participated in MTNL Health Mela and Medico Masti organized for all medical students in MAMC, Delhi. Students won several prizes for various cultural events. Annual fete was conducted for SNA fund raising on 17 January 2020. Health related important National and International Days were celebrated. College celebrated various festivals like Diwali, Christmas by organizing cultural programs. Annual sports week was celebrated in march.

Achievements

Students participated in various unit level and state level competitions organized by SNA. Miss Shikku Kunjumon got 3rd prize for extempore speech competition in state level competitions held at VMMC and Safdarjung hospital.

Ms. Priya Susan Varghese was awarded *The President's Silver Medal for Nursing* during University Convocation for being the University Topper in B.Sc.(H) Nursing Course.

Dr. Raminder Kalra was appointed as a resource person for expert member of Board of Studies in College of Nursing ILBS and Ruffa College of Nursing Hamdard University.

Students with distinctions:

Priya Susan Varghese of B.Sc.(H) Nursing IV Year Semester VIII secured 81.7% in 2019

Christy Ruby Johnson of B.Sc.(H) Nursing III Year Semester VI secured 78.5% in 2019

Himanshi Garg of B.Sc.(H) Nursing II Year Semester IV secured 81.2% in 2019

Kessia Kuriakose of B.Sc.(H) Nursing I Year Semester II secured 86.8% in 2019

Ayushi Rana of M.Sc. Nursing I Year Semester II secured 78.3% in 2019

Publication total number

Parcha, M. (2019). Assessment of nutritional status of children (3-5 years) and association of their mothers knowledge. International Journal of Science and Research, volume 8 (issue 9), 723-725. ART20201122.

Rautela M, Thomas S, Sr. Rita P D (2020). Assess the Effectiveness of Helfer Skin Tap Technique on the level of pain during intramuscular injection. International Journal of Nursing Education, volume 12, (issue January-March) DOI Number: 10.5958/0974-9357.2020.00010.0

Lawrence L. (2020). Assess the Stressful Factors and the Coping Strategies of Parents of Children Living with Cancer. International journal of science and research. volume 9 issue 2 DOI: 10.21275/SR20218085541

Bhawna (2019). Assess the effectiveness of hot water application with Epsom salt and hot water application on joint pain among adults suffering from arthritis. International journal of science and research. volume 9 issue 10 DOI: 10.29322/IJSRP.9.10.2019.p94105

Uniyal R(2019). Develop and Evaluate the Effectiveness of Video Assisted Teaching Programme on Knowledge Regarding Screening of Substance Abuse among Staff Nurses. Indian Journal of Nursing Studies Volume 10 Number 1 issue Jan-June 2019 pg. 47-55

Mala(2019). Assess the effectiveness of Structured Teaching Programme in terms of Knowledge of Adolescent Girls regarding Polycystic Ovarian Syndrome and Prevention of its complications. International Journal of Nursing & Midwifery Research. Volume 6, Issue 1 - 2019, Pg. No. 28-32. DOI: <https://doi.org/10.24321/2455.9318.201907>

Banerjee S(2019). Assess the effectiveness of a self-instructional module on knowledge, attitude, and practice regarding pharmacovigilance among staff nurses. Current Medicine Research and Practice. Volume 9, Issue 3 May–June 2019, Pages 93-97. <https://doi.org/10.1016/j.cmrp.2019.05.001>

Goswami S(2019) Assess the Knowledge and Attitude of Mothers regarding Prevention of child sexual abuse (CSA) in selected urban community in New Delhi. Journal of Nursing Science and Practice. Volume 9, issue 3.

Dimri N(2019) To assess the knowledge of staff nurses regarding 24 hours care of patients with myocardial infarction admitted in selected hospitals of Delhi with a view to develop self instructional module. International journal of multidisciplinary education research Volume: 8 Issue: 10(1) October

Pandey C(2019) to Assess the Quality of Life of Adolescents (13-19years) attending ART Centre of Selected Hospital in New Delhi. Indian Journal of Youth and Adolescent Health. 2019 6(1):28-35.

Journals – Nil

Research projects

50 B.Sc. Interns conducted Research projects in 5 groups in the area of Med-Surg. Nursing, Midwifery, Pediatrics, Community Health Nursing & Mental Health Nursing.

28 Post B.sc 2nd year conducted research project in 3 groups in Nursing.

22 M.Sc Nursing students conducted individual Research projects on different aspects of Nursing.

Patents filed / granted

Number and titles of national patents – none

Number and titles of international patents – none

Number and titles of collaborate patents – none

Seminar Organized

Seminar was organized by M.Sc. Nursing students on the following topics- Therapeutic communication for staffs of VIMHANS

Conference / Workshop organized

6 days state level workshop was organized by M,Sc. 2nd year nursing students from different specialties from 4 to 9 November 2019. The first 2 days workshop was on the topic of organ transplantation –together towards tomorrow i.e. from 4 to 5 November 2019. The next two days workshop was on the topic on Adolescent Health: “*think .act. grow*” i.e. from 6 to 7 November 2019. The last 2 days workshop was

conducted on topic of achieving SDG'S: The Global Goals i.e. from 8 to 9 November 2019.

Five days' workshop on HIV awareness and counselling was organized by faculty members. It was attended by employees from Lab and Nursing departments of Holy Family Hospital.

Seminar / conference presentations

Dr. Raminder Kalra was speaker for the session on topic of "Developing experimental design analysis" on 18 December 2019 in ILBS Ms. Giji John and Ms. Jeena Jose were speakers in the 11th International Asia Pacific Vascular Intervention Course on the topic "Cardiac Rehabilitation" on 30 June 2019.

National. International MoUs Signed

Acharya Narendra Dev College, University of Delhi, New Delhi- To promote 'Paramarsh'- a University Grants Commission(UGC) scheme for Mentoring National Accreditation and Assessment Council(NAAC) Accreditation Aspirant Institutions to promote Quality Assurance in Higher Education.

Other institutional collaboration-None

Students under exchange programme-None

Placement details

Number of students getting successful placements- 100%

Number of Companies/Industries coming for campus recruitment- Not encouraged because all students preferred and were offered job in parent hospital (Holy Family Hospital).

Extension and outreach activities

Celebration of international days and other important Group activities by the students. Debate competition was conducted for students in collaboration with Hope Initiatives on the topic "Alternative Medicine: A Boon or Bane on 8 April 2019. Health camp was organized by MSc 2nd year students on "general health checkup "focusing on hypertension, diabetes mellitus, anemia and eye testing in Aligaon in collaboration with SAHSEE NGO on 9 April 2019. 47 people attended camp where 3 new cases of diabetes mellitus, 4 cases of hypertension and 2 cases of anemia were diagnosed. On 23 April 2019 group project was conducted by students on the topic : balanced diet and food hygiene at RHTC Najafgarh. From 3 to 8 August 2019 "Wellbeing assessment "was done by MSc 2nd year students in Ayudham old age society for inmates staying there. On 9 August MSc 1st year community health nursing students conducted a skit on hand washing technique and benefits and also gave health teaching on the topic *Ghar Ghar Poshan* at Shrinivaspuri. This project was conducted with collaboration with Shoadh NGO. On 31 August 2019 group activity was conducted by MSc 2nd year students on communication skills at Kasturba Niketan Boys Home, Lajpat Nagar Delhi. A health camp was organized by Post Basic 2nd year with collaboration with community health department HFH in Ali village on 17 September 2019. A skit and health education on nutrition was shown to the general public. Followed by the health assessment was done for all. A school health project was organized by Post Basic 2nd year on 27 September 2019 in Uma Public School, Ali village. A skit and health education was presented on the theme environmental hygiene. After which assessment of all class 4th and 5th was done. An eye camp was organized by MSc 1st year students in collaboration with Nehru foundation in Ali village on 3 October 2019. A skit and health education on the topic "*save girl child*" was conducted at general OPD of Holy Family Hospital on 11 October 2019. A school health camp was organized by BSc interns along with Fr Angel Charities on 2 November 2019 at Vidya Ankur, Badarpur. A skit was done by our students on nutrition and healthy food habits followed by health assessment of students. A group project was organized by BSc 3rd year in Taimoor Nagar on 29

January 2020. A school health project was organised by students on 28 February 2020 at SDMC Pratibha Kanya Vidayala, Malvia Nagar. This was organized in collaboration with Rotary Club. A skit was shown on the topic “Healthy Habits & Healthy Behavior” and health assessment was done for 367 school children. A health camp was organised by MSc 2nd year students to screen for RTIs/STIs among women of reproductive age group residing in Ali Gaon on 25 February 2020. M.Sc. 1st & 2nd year students participated in relief camp from 28th February to 2 March in various places across East Delhi for victims of CAA and NRC protest riots across Delhi & NCR.

International Days

World Health Day was celebrated on 9th April 2019 with role play & health education by BSc 3rd year in HFH OPD. This year theme was health for all: Everyone, Everywhere.

World Hepatitis Day was celebrated on 29th July 2019 with role play, and health education, at Anganwadi hub of Chawla village in south west district of Delhi by Post Basic 2nd year students. This year theme was: invest in eliminating hepatitis

World AIDS Day was celebrated on 2nd December 2019 with role play and health education in HFH OPD.

World Hepatitis Day was celebrated on 4th December. Students participated in Poster and Skit Competition at ILBS, Vasant Kunj.

World Cancer Day was celebrated on 4th February 2020 with Role play and Health Education at Holy Family Hospital, New Delhi.

Library development

No. of Book Racks/ cupboards

Total number: 96

Nursing: 24

No. of journal racks: 5

No. of tables: 28

No. of tables/ stools: 177, Seat Reading Room 5,

CD ROM's available for students: no

No. of Nursing books available: 1789

No. of latest edition Nursing books (since 1990): 945

No. of Nursing Journals Subscribed: 15 (11+4=15)

Internet facility available for students: Yes

Books purchased in the last financial year: 25

Faculty strength- 37

Financial Allocation and Utilization – No Financial Aid received from outside

INDIRA GANDHI INSTITUTE OF PHYSICAL EDUCATION & SPORTS SCIENCES

Major Activities and Achievements

A Blood Donation Camp organised on 4 April 2019. A Placement Drive 2019 organised on 15 April 2019. A large number of passed out Students (BSc. (PE, HE&S), B.P.Ed. M.P.Ed.) appointed in various Govt. Schools of Delhi through DSSSB. Some student got employment in various kendriya vidyalaya Sangthan (KVS) throughout the country. Self- Financing Fitness Trainer Course (FITCO) and Certificate Course in Yoga Education were also conducted. Meeting on 6 July 2019 by “THE QAZAQ KURES ASSOCIATION OF INDIA (QKAI)”. Under the Campaign of Anti-Tobacco around 40 Boards of No Smoking displayed. Student and Staff paid homage and commemorated the Soldiers/Martyrs in Kargil War on 26 July 2019. The entrance based admission of B.Sc. (PE, HE&S) of 2019-20 successfully completed. A Competition “Selection Trial of Indian Team for the Qazaq Kures World Championship” was organized on 25 October 2019 by “THE QAZAQ KURES ASSOCIATION OF INDIA”. Various events such as Essay Competition (Topic: Voter’s Duty), Poster Competition (Topic: Election & Election Awareness) and I-Min Video Competition (Topic: Election & Election Awareness) and Debate on New Education Policy (Inter Class Debate) were organized.

Honours/Distinctions

Best paper award through co–author in ICSEHS 2019: “Variability of Covariance of Selected Skeletal Diameters of Female in a Longitudinal Physical Training Programme” Dr. Dhananjay Shaw, Seema Sharma held during 26-27 December at Vienna, Austria.

Students with Distinctions

Ms Neha sharma, M.P.Ed secured 1st position in the University with 82.47% marks

Ms Surbhi Jain, M.P.Ed. secured 2nd position in the University with 81.17% marks.

Ms Rajshree, B.P.Ed. secured 1st position in the University with 84.4% marks.

Ms Jimmy Joy, B.P.Ed. secured 2nd position in the University with 81.56% marks.

Publications

Dhananjay, S., Kumar, P., Bali, A., Kapoor, A. (2020), Automatic Function of College Boys and Girls (A comparative Study) *International Journal of Physical Education, Sports and Health*, 7(2):134-149. P - ISSN:2394-1685, E – ISSN: 2394- 1693.

Kaushik S, S., Shaw D. (2019). Length Dimension Correlates of Longitudinal Physical Conditioning on Indian Male Youth, World Academy of Science, Engineering and Technology International Journal of Sports and Health Sciences. 13 (11): 461-464. ISNI: 0000000091950263.

Shaw, D, (2019). Predictor Variables and Independent Variables of World Happiness Index 2018” 29th National Conference of Sport and Exercise Psychology, Practices, Pursuits and Promises, ISBN: 978-81-8360-281-5.

Journals

Published by the College 01

Number of College Teacher’s serving as Editor(s)/Member(s) of Editorial Board 07

Seminar/Conference Organized

Workshop on “Software for Biomechanical Analysis” organized at Biomechanics Lab of the Institute on 23.-25 May 2019

A Workshop on “MATLAB Application for Research in Physical Education & Sports Sciences” organised on 26-27 May 2019.

A Workshop on “Open Source and Proprietary Software for Research in Education & Sports Sciences” organised on 29-30 May 2019.

A Workshop on Accounting Software for Non-Teaching Staff was organized under Skill Development and Training Programme on 25.09.2019 to 27.09.2019

A Career Conclave organized by the Directorate of Education Govt. of N.C.T. of Delhi at Thyagraj Stadium, INA, New Delhi from 21-25 October 2019

A Workshop on Oncology was organized on 13 November 2019.

A National Seminar and Refree Test of Qazaq Kures, “THE QAZAQ KURES ASSOCIATION OF INDIA (QKAI)” was organized on 27 November 2019.

Indo- Australia Conclave-2019, “A Psychological Perspective of Suicide in sports and therapist confrontation in Sports Psychology Practices was organized on 10 December 2019.

A Workshop on “Code of Professional Ethics of Teachers” was organized in January 2020.

Conference Organized

An Indo- Australia Conclave-2019 on “A Psychological Perspective of Suicide in sports & Therapist Confrontation in Sport Psychology Practices” held on Dec.10, 2019 at IGIPSS.

A virtual conference of two days International Webinar on Psychological Strategies for Winning held on 23 -24 December 2020.

Placement Details

Students of this Institute got the job in Kendriya Vidyalaya School, Navodaya Vidyalaya School and other government schools of NCT of Delhi (through DSSSB) and various private schools of Delhi. Recently, in the year 2018 around 89 students (B.Sc. and B.P.Ed.) of this Institute have been appointed in Delhi Government Schools through DSSSB.

Extension and Outreach Activities

A Blood Donation Camp was organised on 4 April 2019 in the premises of the Institute in which a large number of Students, (N = 100) Teaching and Non-Teaching Staff took part with full zeal and enthusiasm. The 5TH International Yoga Day was celebrated on 21 June 2019 in which children of adjoining area were called to participate in the function. Children learned the Yoga exercises from Teachers and Students of the Institute.

Library Development

Successfully implementation of digital library, users of IGIPSS have access to the full text documents in digital format i.e. old question papers, M.P.Ed., B.P.Ed and B.Sc. Syllabus, all Ph.D. thesis and all M.P.Ed. Dissertations awarded from 2013 onwards. Presently IGIPSS library database “Vidya: Library

Management Software” put on-line through XAMPP Server.Total Library collection 12644 (9017 Accessioned Books, 2300 Reading Room, 729 Thesis and 598 Department Books) has been computerized in the database and Bar-coded which is searchable through Online Public Access Catalogue (OPAC). Library has organized three library orientation programs to enhance the use of physical and digital information resource.

Journal Subscribed: 02 (International) 20 (National)

Faculty Strength

Permanent: 26 (including Officiating Principal)

Financial Allocation and Utilization

GIA – Salary Rs162420042

Grant Received Rs162420042

Utilized Rs 15,55,58,083

GIA – Other than Salary

Grant Received Rs 8,69,8800

Utilized Rs 84,34,290

GIA – Capital Assets

Grant Received Rs 87,62,853

Utilized Rs 20,866

INDRAPRASTHA COLLEGE FOR WOMEN

Major activities and achievements

The College celebrated its 96th Annual Day, marching towards its centennial. It added an Academic Extension and Activity Block, with dedicated spaces for student societies. Approval was received for starting the B.Sc. (Hons) Environmental Science course and the required infrastructure. The Department of Mass Media and Mass Communication, completed 20 years, with year-long academic events, felicitations and festivities. Project ‘Nidaan’, under the slogan ‘No Waste Leaves the Campus’ was launched for Waste Management and Waste Segregation at Source. The College strengthened its national and international linkages, signing MoUs with institutions in both categories. Several collaborative academic seminars and symposia were organized. The College also collaborated with public and private universities in Delhi/ NCR region on projects and events to promote intellectual and academic exchange in the peer group. A Translation project awarded by the Sahitya Akademi, led to a publication completed jointly with students and faculty. The seventh centre of the College, Centre for Yoga and Wellbeing, was inaugurated.

Honors/Distinctions

Prof. Babli Moitra Saraf, Principal was awarded the Certificate of Felicitations by University of Delhi and Gandhi Bhawan, on the occasion of Gandhi 150 for singular contribution to the promotion and dissemination of Gandhian thought. She was invited by Deloitte to participate in their Annual Dean Summit in Hyderabad, April 2019, as a Delegate to the Vice Chancellor's conclave on 'Industry 4.0 giving way to an educational revolution: Employability, Student Experience, Research Excellence and Society' by Times of India Group, September 2019, was elected as one of the 'Top 50 Exemplary Academic Administrators of Higher Education Institutes across India' for the year 2019 by uLektz Wall of Fame: An initiative to identify, recognize and award the contributors of Higher Education, February 2020 and was invited on the Selection Committee for the Fulbright-Nehru International Education Administrators Seminar.

Dr. Meenakshi Khanna, Associate Professor, Department of History received Namaste+ Fellowship and spent a month as a Visiting Professor at the University of Gottingen, Nov- Dec 2019.

The College was a Knowledge Partner at the Annual Conference of the Club of Rome, on 'Creating a Sustainable Future for Jammu & Kashmir and Ladakh', January 16-17, 2020 at WWF-India, New Delhi.

The College in collaboration with Shakespeare Society of India hosted for the second time the National Drama Competition on February 1, 2020. The College has instituted two running trophies for the National Shakespeare Society of India Drama Competition, one for the 'Most Original Concept' and the second, for the 'Best Play in Shakespeare's Original Language'. These trophies were awarded on the occasion.

Students with Distinctions

Ten Students secured 1st position, 9 secured 2nd position and 6 students secured 3rd position in the University

Twenty-two Students were awarded the UN Millennium Fellowship, Class of 2020, for their Outreach Projects and initiative in pursuit of the Sustainable Development Goals (SDG).

Drishti J. Verma was awarded the Emerging Scholars Award for Outstanding Contribution to Research at an Early Age by the University of Bonn, Germany in October 2019.

Bhavika Kohli, manager of ARISE Impact, a pilot project to increase employability skills of students with disabilities in the College. She is the President of Global Youth, IPCW chapter and Deputy Chairman, International Council Global Youth.

Shreya Sharma and Shweta Bhardwaj, were awarded the project titled 'American Sign Language Recognition using Deep Learning: A system' under the UG Centenary Decade Grant.

Niharika, Shubhangi Chakravarty and Kushagri Sharma, were awarded the project titled 'Google Ad Grants Online Marketing Challenge, by Google.

Publications

Bhargava, M. (2019). *Understanding Mughal India: Sixteenth to Eighteenth Centuries*. Hyderabad: Orient Blackswan. ISBN 978-93-5287-869-7

Das, N. (2019). 'The Cat's Daughters'. In David C. Kopaska Merkel .ed. *The 2019 Rhysling Anthology*. Columbia, South Carolina: Science Fiction and Fantasy Poetry Association. 90-91. ISBN 1090917392

Dhanda, Praveen. (2019). 'Beyond the Pyramidic Structures: Gandhi's Vision of Oceanic Circle'. Journal of Acharya Narendra Dev Research Institute. 27, 54-62. ISSN 0976-3287

Malviya, S. (2019). Symbol as Metaphor and Metonymy: A Sociological Perspective on Mathematical Symbolism'. Science, Technology and Society. 24 (1), 53-72. Online 0973-0796

Saha, A. R. (2019). Why is the Waste Sector Wasting Too Many Business Opportunities? A Case Study of Delhi, India'. In S. Ghosh.ed. Sustainable waste Management: Policies and Case Studies.1:347-356. Singapore: Springer.

Sarkar, S.(2019). Shift in Potential Malaria Transmission Areas in India, Using the Fuzzy Based Climate Suitability Malaria Transmission (FCSMT) Model under Changing Climatic Conditions'. International Journal of Environmental Research and Public Health. 16(18): 3474.

Saraf, B.M. (2019). Selected Hindi Short Stories (ed). New Delhi: Sahitya Akademi. ISBN 978-93-89467-29-1

Sengupta, D. (2019). Women's Writing from India, Pakistan and Bangladesh: The Worlds of Bangla and Urdu (co-ed). UK: Bloomsbury Publishers. ISBN 978-93-88271-52-3

Sethi, R. (2019). Stree Kavita: Paksh aur Pariprekshya. New Delhi: Rajkamal Prakashan. ISBN 978-93-89577-22-8

Singhal, A. (2019). A Comparative Analysis of Hindi Multi Word Expressions using Relevance Measure RMMWE'. International Journal of Innovative Technology and Exploring Engineering. 8: 3436-3445.

Journals

Published by the College: 01 (CODE: Journal of the Translation and Translation Studies Centre)

Number of College Teachers serving as Editor(s)/Member(s) of Editorial Board: 4

Research Projects

6 Projects sponsored under the Undergraduate Centenary Decade Research Grant awarded to 12 students.

ICSSR funded project, "Cost Benefit Analysis of Alternative Models of Financing and Delivery of Primary Healthcare in Urban Areas: A Framework for Public Private Partnership" 26 February 2018- February 2020. INR 950000

Seminars Organized

Seminar, 'Data Science and Machine Learning', was organized by Computer Science Society in September 2019.

Seminar, 'India-UK: Climate Change Adaptation and Priorities', Centre for Earth Studies, September 2019.

Seminar, "Dramatized Reading of 'The Widow' from *The Inheritors*, was organized by Translation and Translation Studies Centre in August 2019.

Seminar, "Contribution of Sanskrit Intellectual Tradition to the World", was organized by Sanskrit Studies and Research Centre, in August 2019.

Seminar, 'Reporting Sexual Violence in Contemporary India: Needs and Nuances', was organized by Centre for Interdisciplinary Studies in April 2019.

Conferences Organized

International Hindi Conference on 'Hindi: Global Perspectives, Language, Literature and Culture' in collaboration with New York University, South Asian Language Programs and Columbia University, Hindi Urdu Language Program, January 2020.

International Student Symposium around English Studies and learning in India with researchers from the Department of Learning and Teaching, University of San Diego, California, January 2020.

National Conference on 'Gender and Media', November 2019.

International Conference on 'Smart Intelligent Learning for Information Optimization', June 2019.

Seminar/Conference Presentations

Total Seminar/Conference Presentations: 44 International; 56 National

Suraj Beri presented a paper entitled, 'Reconfiguring Privilege and Social Inequalities: Understanding Elite Strategies in Bikaner Town'. in Annual Seminar on 'Narratives of Transition: Everyday Politics and Social Change'. South Asian Anthropologists Group, UK organized by Department of Anthropology, London School of Economics, London, 19-21 September 2019.

Jayashree Borah presented a paper entitled, 'Forever an Exile? Narrativising Memory and Migration'. Third Annual Memory Studies Association Conference. Memory Studies Association, Complutense University, Madrid, Spain, 25-28 June 2019.

Shubhda Chaudhary presented a paper entitled, 'Manufactured Clash: Role of Arab Media in Iran-Saudi Arabia Rivalry'. A Peace of Process for the Gulf: International Initiatives and Conflict Resolution. University of Cambridge, UK, 14 – 18 July 2019.

Srinjoyee Dutta presented a paper entitled, 'Fractious Truths and Factious Genres: Reading Haruki Murakami's *Kafka on the Shore* in the Post-Truth Age'. Annual International IACLALS Conference on Literature, Culture, and Society in the Age of Post-Truth. Indian Association for Commonwealth Literature and Language Studies, 7 February 2019.

Neelam Jhavar presented a paper entitled, 'CSR in India after The Companies Act 2013: An empirical study on its relationship with corporate governance and financial performance'. Corporate Governance: Issues, Challenges and Changing Paradigms. Global Research Foundation for Corporate Governance, 7-8 September 2019.

Meenakshi Khanna presented a paper entitled. 'Revivifying Religious Authority of Dreams: An exposition from 'Abd al Haqq Muhaddith Dihlavi's *Madarij an nabuwat*'. History, Politics and Culture in the Middle East and North Africa. 26th International Congress of DAVO/ Conference of the Section Islamic Studies of the DMG. University of Hamburg, Germany, 3 – 5 October 2019.

Babli Moitra Saraf presented a paper entitled, 'Learning Hindi as a Second Language: the case of the native Bengali speaker in India'. International Hindi Conference. Centre for Indian Studies and the Centro de Linguística da Universidade de Lisboa (CLUL) of the Faculty of Arts and Humanities of the University of

Lisbon (FLUL), in collaboration with the Ministry of External Affairs of Govt. of India and Embassy of India in Lisbon, Portugal. 5-7 June 2019.

Shubhra Seth presented a paper entitled, 'Responsibility to Rehabilitate: Gendered Travails of Internally Displaced Persons'. Global Protection of Migrants and Refugees. Mahanirban Calcutta Research Group in collaboration with Rosa Luxemburg Stiftung, 25-29 November 2019.

Vinita Sinha presented a paper entitled. 'Revelations in Class and Gender Encountered on Character Clothing'. Progressive Connexions–2nd Global Inclusive Inter-disciplinary Conference on Story-telling and the Body, Verona Italy. Progressive Connexions, Verona Italy, 15-16 July 2019.

Rekha Upreti presented a paper entitled, 'Bahubhashi Kaksha mein Hindi Shiksha ki Chunautiyan'. International Hindi Conference. Centre for Indian Studies and the Centro de Linguistica da Universidade de Lisboa (CLUL) of the Faculty of Arts and Humanities of the University of Lisbon (FLUL), in collaboration with the Ministry of External Affairs of Govt. of India and Embassy of India in Lisbon, Portugal. 5-7 June 2019.

National/International MoUs Signed

MOU with Middlebury, Vermont, USA, April 2019.

Fulbright-Nehru Scholar, Prof. Roseann M. Mandziuk, Department of Communication Studies, Texas State University, San Marcos, Texas, USA, Visiting Scholar, Department of Multi Media and Mass Communication of the College, January-May 2019.

Other Inter-Institutional Collaborations

International

International Committee of the Red Cross (ICRC) on the activities of ICRC and International Red Cross and Red Crescent Movement.

Institute of Iranian Studies, Georg-August-Universitat Gottingen.

Embassy of Sweden to host the Nobel-India National Quiz in the College Premises.

National

Sahitya Akademi for a Project on Translation of Short Stories.

Shakespeare Society of India.

Heritage Associates for the renovation and expansion of Museum and Archives Learning Resource Centre.

Loktantrashala.

Indira Gandhi Delhi Technical University for Women.

Fab India.

Placement Details

Number and Percentage of Students placed: 81

Number of Companies visited for Campus Recruitment: 22

Extension and Outreach Activities

Workshop was organized in collaboration with IGDTUW & WWF India on 'Menstrual Hygiene and Promotion of Bio-Degradable Pads' on 27 September 2019. Outreach program with Neighborhood School on 'Say No Crackers and Let Delhi Breathe' by Students of the College was organized on 25 October 2019. Outreach activity on slum teaching was organized from September to November, 2019 wherein 22 NSS student volunteers from the College. On-Line Services such as Web-OPAC accessible in College Campus, UGC-NLIST & DELNET Database including Inter Library Loan, E Journals & e-database subscribed by Delhi University Library System are accessible in College Campus. Special Facilities & Services are available for PH/VH Students & Faculty like Atlas for visually impaired ('INDIA' - published by National Atlas & Thematic Mapping Organization, Department of Science and Technology, Government of India, Kolkata 2017)

Library Development

Number of Books in the Library as on 31.03.18	95243
Number of Books added during 2019-20	698
Total Number of e-resource (CD/DVD)	
Number of Academic Journals Subscribed	86
Number of Magazines	24
Number of Bound Periodicals	4564

Faculty Strength:

Permanent:	86
Temporary:	01
Ad-hoc:	74
Contractual:	09
Guest:	08

Financial allocation and Utilization:

Grant sanctioned	Rs. 5,43,327,450
Utilized	Rs. 4,82,001,424

Other Significant Information

The College hosted the 14th Annual Public Lecture by Mr. Parmeswaran Iyer on 16 September 2019. First Inter College and 6th Round Table Conference on Gandhi 'Gandhi after Gandhi', was organized in October 2019. The College celebrated 20 years of Mass Media and Mass Communication with yearlong activities, followed by a National Conference on 'Gender and Media', 4-5 November 2020. The Conference ended with the felicitation ceremony of alumnae from various departments working in the field of media. International Students Workshop on 'Sufism in South Asia: A view from Delhi' was organized by the Department of History of the College in collaboration with Institute of Iranian Studies, Georg-August-Universität Göttingen, 6-8 January 2020. Workshop on 'Women Entrepreneurship: Incentives and Strategies' was organized by the College in collaboration with Indira Gandhi Delhi Technical University for Women – Anveshan Foundation, 17 October 2019. Workshop on 'Emerging Pollution Challenges on earth

Ecosystem – Safar, India’s Most Novel Initiative’ in collaboration with Department of Environmental studies, University of Delhi, sponsored by Ministry of Earth Sciences, Government of India was organized in April 2019. Centre for Yoga and Wellbeing and Department of Physical Education organized a Workshop on Yoga, 23 January 2020. Department of Multi Media and Mass Communication organized a Workshop on ‘News Anchoring’ by Mr. Pranesh Roy, Anchor and Deputy News Editor, Times Now Under the aegis of IQAC on 25 January 2020. The Department of Philosophy organized Indian Council Philosophical Research (ICPR) Periodic Lecture-2 on ‘Philosophy of Perception’, 31 January 2020. Department of Environmental Science organized ‘Campus Bird Count’ in the College Campus, 17 February 2020. This count is a part of the Great Backyard Bird Count (GBBC) India, 2020.

INSTITUTE OF HOME ECONOMICS

Major Activities and Achievements

The Institute of Home Economics (IHE), founded by Dr. S. Malhan in 1961, is a leading institution of learning, research, and knowledge building. The values of integrity, honesty, leadership, inclusion, community involvement, and accountability are inbuilt in its mission and philosophy. Today, it is one of the premier institutions of the University of Delhi, imparting holistic value-based education to women students, offering a wide spectrum of courses. The college has undergraduate courses in Home Science (Hons. and Pass), Microbiology Hons, Biochemistry Hons, B.El.Ed, B.Sc. (Hons) in Food Technology and BA (Hons) in Journalism. IHE also offers post - graduate courses viz., M.Sc. in Fabric and Apparel Sciences and M.Sc. in Food and Nutrition, PG Diploma in Dietetics and Public Health Nutrition and PG Diploma in Health and Social Gerontology. A number of students have been enrolled for Ph.D and many faculty members guide doctoral research. The college received FIST grant from Department of Science and Technology and Star College Scheme grant from Department of Biotechnology.

Honours / Distinctions

Dr. Geeta Trilok Kumar, Director, Member, NCD Policy Group for the Comprehensive National Nutrition Survey (CNNS) constituted by MOHFW(March 2020); Chairperson ‘Task Force on Balanced & Healthy Diets’ set up by Nutrition & IDD Cell, Directorate, Member, Technical Advisory Group, Comprehensive National Nutrition Survey, Ministry of Health & Family Review panel SERB, Department of Science and Technology, Govt of India (2017 onward)

Dr.Seema Puri, Member, Scientific Panel on Labelling and Claims/Advertisements, FSSAI, GoI Member, Scientific Panel on Functional Foods, Nutraceuticals, Dietetic Products and other similar products, FSSAI, GoI ; Member of Task Force on ‘Balanced and Healthy Diets’, Ministry of Health and Family Welfare; Member of Project Review Group on Child Health , ICMR; Member of Project Review Group on Geriatrics, ICMR; Honorary Member of Board of Governors, NDDDB Foundation for Nutrition

Ms.Shipra Gupta received 1st Position in Research Poster Presentation for paper entitled “Dietary Intake of Female College Students Having Normal and Disordered Eating Behaviours in Delhi” at the UGC-Sponsored National Conference on ‘Food Safety, Nutritional Security and Sustainability’ held on March 6-7, 2020 at Shyama Prasad Mukherji College for Women, University of Delhi, Delhi.

Khanna, P., & Dr. Bani Aeri Awarded the Dupont Grant by The Food and Nutrition Society of Indonesia for oral presentation Asian Congress of Nutrition, held on 4-7 August 2019, for Paper titled, Low intake of

protein rich foods and depression and anxiety symptoms: Association among adolescent boys and girls, held at Bali, Indonesia;

Dr. Geeta Chopra was Member consultative group for Min of Health and Family Welfare, GOI and Bernard Van Leer Foundation (BvLF) to improve the lives of children during the critical first 1000 days of their lives and to propose solutions in Indian context.

Jairam, M., Chopra, G. Paper got ‘Excellent paper’ award. Current status of early childhood education service in the ICDS programme of India : A review article presented at IAARHIES international conference, Jaipur (Aug, 2019).

Dr. Savita Aggarwalecured first prize for Original research, at National seminar on Challenges in Climate change and Sustainable Development, organized by society for Environment & Development, at Sri Venkateswara College (April, 2019)

Publications

Chauhan, S., and Aeri, B.T. (2019). Depression, anxiety, and stress among Indian urban affluent adults. *Indian Journal of Social Psychiatry*. 36(1): 60. (ISSN: 0971-9962)

Filteau S, Kumar GT, Cole TJ, Sachdev HS, De Stavola BL (2019). Steady Growth in Early Infancy Is Associated with Greater Anthropometry in Indian Children Born Low Birth Weight at Term. *J Nutr. pii: nxz113*. doi: 10.1093/jn/nxz113

Grover, B., Puri, S., Tandon, N.(2019). Nutrient-Adipokine Interaction in NAFLD: A Review. *World Journal of Nutrition and Health*.7 (2): 30-34 (ISSN: 2379-7819)

Houghton LA, McIntosh DR, Trilok-Kumar G, Haszard JJ, Gibson RS. (2020). Suboptimal Suboptimal feeding and caring practices among young Indian children ages 12 to 24 mo living in the slums of New Delhi. *Nutrition*doi:10.1016/j.nut.2019.110553

Malik A, Eggersdorfer M, Trilok-Kumar G (2019). Vitamin E status in healthy populations of Asia: a review of current literature. *Int J Vitam Nutr Res* doi: 10.1024/0300-9831/a000590

Mehlawat, U., Tejmeet. T.K., and Puri. S.(2019). Status of Breastfeeding at Birth and at 6 Months Amongst Mothers Residing in Urban Delhi-NCR *Annals Nutrition and Metabolism*.75: 8-9. (ISSN: 0250-6807)

Narwana, K. and Rathee, S (2019). Gender Dynamics in Schooling: A comparative study of co-educational practices in two socio-cultural milieus. *Indian Journal of Gender Studies*, 26(3), 288–308

Parray, M.I.(2020). Historical development of press in princely India: the case of Jammu and Kashmir state, c. 1867-1947. *Inclusive*>1(17): 104–118. ISSN: 2278-9758

Puri, S. (2019). Addressing Critical Failures in Infant and Young Child Feeding in India. *Annals Nutrition and Metabolism*.75: 8-9. (ISSN: 0250-6807)

Sehgal, S. (2020). Not Just a Thappad: On Domestic Violence. *Economic and Political Weekly*, LV 26&27: 32-35. 0012-9976

Suri, M (2019). Dietary approaches to prevent the development of cataract in elderly. *MOJ Gerontol Ger* .4(6):247- 248, eISSN: 2574-8130

Vachher, M., Arora, K., Burman, A., Kumar, B. (2020) NAMPT, GRN, and SERPINE1 signature as predictor of disease progression and survival in gliomas. *Journal of Cellular Biochemistry*.121(4):3010-3023. (ISSN 1097-4644)

Journals

Number of college teachers serving as Editor/ Members of Editorial Board: 02

Research Project

Department of Biotechnology, Sept 2018-20, Body composition, early growth, and chronic disease risk of school-aged children who were born low birth weight. at term for Rs 58,02,517

Wellcometrust- DBT, London School of Hygiene & Tropical Medicine, 5 years, To Improve Understanding of Interactions among IUGR, Early Growth Gut permeability, Body fat, Diet and Physical Activity and Risk of Chronic Disease in LBW Children, Amount: Rs 4,29,21,974

UNDP and MoEFCC, Mapping the Vulnerability of Women in India to Climate Change at the sub-National Scale, 2017-2020 Amount: Rs. 28.42 lakhs

Ministry of Women and Child Development, GOI, Opportunities and Challenges in Digital Literacy: Assessing the impact of Digital Literacy training for Empowering Urban Poor Women', 2017 to January 28, 2019, Amount: Rs.11,06,700 lakhs

Bill and Melinda Gates Foundation BIRAC, Healthy Birth, Growth and Development Knowledge Integration (HBGDKI, Amount:8 lakhs

Seminars Organised

Professor Shyam S Chauhan, Head, Department of Biotechnology, All India Institute of Medical Sciences (AIIMS), "Prognostic and Therapeutic Relevance of Cysteine Cathepsins in Myeloid Leukemia", 26 September 2019.

Dr. Anita Verma Karma, Associate Professor, Department of Zoology, University of Delhi, "Nanobiotechnology: Drug delivery for cancer", 13 September 2019

Dr. KaminiWalia, Pgm officer AMR initiative, Indian Council For Medical Research, "ICMR efforts to combat Anti Microbial Drug Resistance", 12 September 2019.

Mr Somnath Bharti, Member of Delhi Legislative Assembly, "Mantra of Lok Tantra" delivered, 24 October 2019

Ms. Girija Jha, Assistant Professor, NIFT, New DELHI, Textile Sustainability, 30 September 2019

Conferences Organised

Conference on Role of Food in Prevention and Management of Cancer Funded by Department of Food and nutrition, IHE, in collaboration with Association of Food Scientists & Technologists (India)-Delhi Chapter was organized on 4 February 2020.

Seminar / Conferences Presentations

Dr. Geeta Trilok Kumar Panelist - 'The Role of Gender in South Asian Food Systems' Regional Symposium organised by GCRF, UKRI in Dhaka, Bangladesh; 23 – 24 February 2020.

Dr. Geeta Trilok Kumar – Panelist ‘Each for Equal in Science Education & Research’ on International Women’s Day 2020 organised by Vigyan Prasar , Department of Science and Technology, Government of India; 8 March 2020.

Dr. Geeta Trilok Kumar presented a paper entitled, ‘International Conference in Biochemistry and Biotechnology to combat Human Diseases’ jointly organised by Department of Biochemistry, University of Delhi, South Campus and Shivaji College, University of Delhi; 12-13 February 2020.

Dr. Parveen Pannu– Presented paper entitled ‘Cyber-campaigning and Online Activism for addressing Gender-based Violence in India’, at Jamia Millia Islamia Teachers Association (JTA) International Multidisciplinary Conference (JTACON-2020) – Mass Communication Chapter, at Jamia Milia Islamia, New Delhi; 17-18 February 2020.

Dr. Geeta Chopra. Panelist at a workshop on Early care of a child with developmental delays and follow up of a NICU graduate. organized by ICANCL and Indian Association of Pediatrics- Delhi chapter in October 2019.

Ms.Renu and Dr. Geeta Chopra Presented a paper entitled ,’ Awareness of Child Sexual Abuse among Teachers: A Global and Indian Perspective’, Presented at CESI, 10th Annual International Conference on ‘Exclusion, Inclusion and Equity in Education’ hosted by JNU, New Delhi, 2019.

Ruchira Das presented a paper entitled, ‘Tribal Self, Stigma and the City: Experiences of Inclusion and Exclusion’ in the Research Committee 21, Urban and Regional Development, International Sociological Association Annual Conference titled ‘In and Beyond City’ at India Habitat Centre, New Delhi; 18-21st September, 2019.

Jyoti Dalal presented a paper entitled, ‘Theorizing Exclusion: State, Marginality and Education’, at the 10th International Conference of Comparative Education Society of India on ‘Exclusion, Inclusion and Equity in Education’ held at JNU, New Delhi; 9-11th December, 2019.

Dr. Poonam Magu - presented a paper entitled. ‘Designers OR Ergonomists- Can Home Science win the race?’ at National Seminar on ‘Home Science: Nurturing Innovations and Skill Development’ organized by Government Home Science College, Chandigarh; 20 February 2020

National / International MoUs Signed

With Indian / Foreign Companies / Industry

Greenpeace, India and Department of Resource Management and Design Application, IHE.

Placement Details

Number and Percentage of students placed – 90 students selected for internship

Number of Companies visited for campus recruitment - 18 companies

Extension and Outreach Activities

The **NSS unit** of the college in collaboration with the Department of **Elementary Education** organized outreach activities Such as A ‘*Daan-utsav*’ for donation of books for poor children, ‘Vigilance week’ and a Blood donation camp. Students of department of **Food & Nutrition** participated in an ‘Intergenerational Mela’ organized by the National Institute of Social Defence, Ministry of Social Justice and Empowerment, Government of India, and Anugraha Regional Resource and Training Centre on Ageing. The students put up a stall and displayed healthy snacks and tiffin ideas for individuals of different age groups. They also conducted nutritional assessment of the adults who attended the event by taking their weight and height

measurements and counselled them on their dietary intake and lifestyle practices. A number of community outreach activities such as nutrition education sessions were carried out at the anganwadi centre in Neb Sarai. They also prepared display boards as part of 'POSHAN Maah' to create awareness about the first 1000 days of life, anaemia, diarrhoea, hand washing, sanitation and nutritious diet. The students of Resource Management and Design Applications, B.Sc (Hons.) Home Science visited Mahindra logistics, Gurugram was made on 9th August, 2019 to conduct an awareness program on solid waste management. *NukkadNatak/ Skit* was designed to portray how to take care of our environment as we envision a waste-free future.

Library Development

The Institute can boast of a fully computerized library with adequate infrastructure and a rich collection of more than 25,000 reference materials in the form of text/reference books, journals, thesis and periodicals. The Institute subscribes to nearly 40 national, international and DU journals. A bar code system with smart cards and scanners is used for the circulation of books. Laptops are available to students for finding the location of books in library and accessing online resources made available by Delhi University.

Faculty Strength

Permanent: 45

Ad hoc: 40

Other significant Information -

The Institute believes in overall personality development of its students and therefore, has many societies viz. Arts, Western Dance, Fashion, Classical Indian Music, Drama, Literary and Debating. Each of these societies have won accolades at various forums in the University and beyond.

JANKI DEVI MEMORIAL COLLEGE

Major activities and achievements

The academic session has been packed with events. The College attained the age of sixty and it has been a true diamond jubilee celebration year for it. The highlight of the Diamond Jubilee Celebration was the Distinguished Lecture Series inaugurated by a lecture by the Hon.Vice President of India, Sh. Venkaiah Naidu on August 1, 2019 on the Founder's Day. Doyens like Dr. Raja and Radha Reddy, Prof. Irfan Habib, Sh. Jairam Ramesh have been among the 50 speakers for the Series. Other highlights were a documentary film on college, a coffee table book chronicling 60 years of college history, special edition of *Janki* annual college magazine that rewinds to the 60s and all the history since then and the flash mob, choreographed by Nirtya, the Western Dance Society. The Clubs, Societies and Departmental associations engaged in innumerable activities like conducting workshops and intra as well as inter college events and competitions. Several faculty members achieved academic distinctions and honours. The Principal, Prof. Swati Pal from the English Department was nominated Vice President of the Indian Association for Commonwealth Language and Literature Studies (IACLALS). A meaningful academic development was the initiation of the Student Teacher Research Projects by the College research committee in September 2019. The Garden Committee and their club, Upvan, won eight prizes for the college at the Annual University Flower Show under various categories including the Rolling Trophy, the Jagrani Devi Memorial Cup for the first prize for Bonsai.

Honours/ Distinctions

Dr. Shilpa Chaudhary received first position in the oral paper presentation session for her paper titled 'Women in North-Eastern States of India: A Socio-Economic Profile' at the National Seminar on "Food and Culture of North East: Solutions to Sustainable Development" organised by Vivekananda College (University of Delhi), Delhi on 22 August 2019

Prof. Swati Pal, elected Vice President of the Indian Association for Commonwealth Language and Literature Studies (IACLALS) in February 2020

Dr. Indu Jain, Elected Convenor for Feminist Research Working Group IFTR (International Federation for Theatre Research) 2020-2024

Ms. Nirmala Muralidhar awarded the 'Inspiring Women – Special Award – Community Sensitisation and Outreach', presented jointly by the first edition of Inspirational Global Women Awards – 2020 and M Verve Live and Bhoopal M team, 8 March 2020

Dr. Gurinder H. Singh performed The Baani of Guru Nanak Dev ji at Dera Baba Nanak – Punjab and at the Kartar pur corridor for the 550 birth celebrations of the Guru, 10 November 2019.

Dr. Rajshree Chandra awarded a visiting fellowship at the Institute of Human Sciences (IWM), Vienna (March 1, 2019 – 31 May 2020)

Dr. Deepshikha Shahi was appointed as the Editor of All Azimuth: A Journal of Foreign Policy and Peace, Ankara: Turkey

Ms. Debahuti Brahmachari, received Veerta Puraskar 2019 for her services and contribution to the National Cadet Corps, 20 September 2019

Dr. Abha Jain was nominated as the Vice President of Khelo Masters Association of India & Khelo Masters Delhi from 2019 onwards

Miss Nisha was nominated as the Executive Member, Khelo Masters Association of India & Khelo Masters Delhi from 2019 onwards

Ms. Vandana Madan received a Certificate of recognition from the University of Muenster, Germany, as lead coordinator for implementation of the Bystander Intervention Program RISE, from January 2018 to March 2020 at the Janki Devi Memorial College, 29 June 2020

Students with Distinctions

Ms Divya Gairola of B.A. (Prog.) III Year topped the University with a CGPA of 8.909

Anjana M. Nair of B.A. (Hons.) History III Year secured Second position in the University

Tejinder Kaur of B.Com III Year has secured Third position in the University

Anisha (B.A. Prog. II Year) secured Gold Medal in India Open International Taekwondo Tournament, Hyderabad, Telangana, 2019, Bronze medals in El-Hassan Open G1 Championship, January 2020 and July 2019 at Amman, Jordan. She represented India in U-52 KY for Asian Taekwondo Championship, Jordan, July 2019 (U-49) and Al-Ahliyya Amman University, Fujairah, UAE, January 2020. She has also represented India in Israel Open Taekwondo Championship, November 2019 and Australian Open Championship, Gold Coast, Australia in June 2019; Oceania President's Cup 2019, Gold Coast, Australia, June 2019

JUO Kusum and JUO Manvi represented Delhi Directorate at the prestigious Republic Day (Rajpath) (January 26, 2020);

Publications

Ahmed, Md. Z. (2019). 1979: The Year that Impelled Iraq's Quest for Regional Supremacy in West Asia." IJAR. 6.2, 233-243.

Charan, A. (2019). Selection Barriers and Challenges for Marginalized Sections in India". Human Resource: People, Process and Technology, New Delhi: Bharti Publications 45-67.

Gupta, S.(2019). Nashonarizumu to Daidokoro: 20 Seiki Zenhan no Hindigo Ryorisho" "Nationalism and Kitchen: Hindi Cookbooks in Early Twentieth Century". Translated by Ueda Masahiro, in Shokukara Egaku Indo: Kingendaino Shakaihenyo to Aidentiti (India Depicted Through Food: Social Changes and Identity in Modern Times). Edited by Riho Isaka and So Yamane, Shumpusha, Tokyo.

Jain, I. (2019). Representing the Migrant Body and Performing Displacement: Contemporary Indian Feminist Interventionist Ecology." Dramaturgy of Migration: Staging Multilingual Encounters in Contemporary Theatre. Yana Meerzon and Katharina Pewny eds. London: Routledge, 2019.

Kumar, A. (2019). "Revisiting Partition of India 1947: The Voice of Dalit Refugees", *International Journal of Social Science and Economic Research*, 4(3), 2112-2133.

Kumar, P. (2019). "Bringing Machiavelli and Kant Back in on Morality and World Politics." *International Studies*, 56.4, 292-307.

Pal, B. (2019). "What Makes up Happy Workplaces?". *ACADEMICIA: An International Multidisciplinary Research Journal*. 9.8: 42-53.

Pal, S. (2019). Monism and Pluralism- A Conceptual Analysis of Their Mutual Interactions within Discourses of Religion. *Tattva Journal of Philosophy*, Vol. 11, Christ University, Bangalore, 41-48.

Sethi, N. (2019). Overturning the Familiar and the Exotic: The Fiction of Ranendra and Hansda Sowvendra Shekhar." Representing the Exotic and the Familiar: Politics and Perception in Literature. Meenakshi Bharat and Madhu Grover eds. Film Studies in Language and Literatures, vol.12. Amsterdam/Philadelphia: John Benjamins Publishing Company, 155-169. Print.

Journals

Published by the College 02

Number of College Teachers serving as Editor(s)/Member(s) of Editorial Board 02

Research Projects

Impact of Recent Economic Policies on Employment (Faculty Involved- Ms. Bijoyata Yonzon and Ms. Navpreet. Kaur, Department of Economics)

Constructing Civic Sense Index: A Case Study of Delhi-NCR, India (Faculty involved- Dr. Shilpa Chaudhary, Department of Economics and Ms. Deepti Sethi, Department of Economics)

Mothering: Changes and Challenges (Faculty Involved - Dr. V. Rajyalakshmi, Department of Sociology; Mrs. Nirmala Muralidhar, Department of HDFE and Dr. Ruby Bhardwaj, Department of Sociology)

Witches: Subjects of India's Cultural Ambivalence (Faculty involved - Dr. Jitender Gill, Department of English and Dr. V. Rajyalakshmi, Department of Sociology)

Locating Environmental Issues within the Philosophical- Political Framework (Faculty involved- Dr. Poonam Kanwal, Department of Political Science and Dr. Sulagna Pal, Department of Philosophy)

Seminars and Conferences Organised

The Department of HDFE and Women's Development Centre, JDMC and CEQUIN presented a student curated webinar on 23 June 2020 on the topic "When Women Lead: Lessons Learnt from the Pandemic".

Dr. Isha Khurana Vashisht, a gynaecologist and consultant in infertility and reproductive health, "Medical Practice and Ethics", 6 February 2020.

Dr. T. Sofie Taubert (University of Cologne), "Re-inventing Shakespeare's Magic: Music and Media in the Reception of a Mid-SummeNight's Dream", 12 September 2019.

Prof. Peter W. Marx (University of Cologne, Germany), "Shakespeare in Germany and the Invention of Politics", 12 September 2019.

Dr. Sakhtivel Selvaraj (Director, Public Health Foundation of India) in Economics Seminar on Health for All, "Achieving Universal Health Coverage in India: Current Trends and Future Prospects", January 22, 2020.

The IQAC and the Department of Political Science organised an International Webinar on the topic, "World Order and Non-Traditional Security Challenges" on 4 June 2020.

IQAC organized a national webinar on "Training on Tally and Cyber Security" on May 13, 2020 with Mr. Karun Jha, IT Expert and Mr. Mohit Gupta, Tally Authorized Expert as resource persons. The session was well attended by non-teaching as well as teaching staff from all over the country.

The IQAC organized a national webinar on "Web Content Licensing" for faculty and scholars across the country on May 6, 2020 by Professor Savithri Singh, Country Lead, Creative Commons India Chapter and Principal (retired) Acharya Narendra Dev College, University of Delhi.

The JDMC-IQAC organized a national webinar on "Preventing Plagiarism: Producing Quality Research" for faculty members on 25 April 2020

The IQAC) and WDC, JDMC organised a seminar on "Indian Laws: A Road to Women's Empowerment" on March 3, 2020 by Ms. Rekha Aggrawal (Senior Advocate, Supreme Court) and Ms. Sunieta Ojha (Advocate)

Seminar/Conference Presentations

Deepshikha Shahi presented a paper entitled 'Foregrounding the Complexities of a "Dialogic" Approach to Global IR', at IBN Haldun University, Turkey, 17 May 2019.

Deepshikha Shahi presented a paper entitled 'The Spectre of Amoral Realism in International Relations: A Classical Indian Overview' at Tshinghua University, China, July 10, 2019.

Dr. Anupama Rajput presented a research paper titled 'Competition in Banking Sector in India using Dynamic Panel Data Analysis' at an International Conference held at MIT, Boston, USA, 28 May- June 1, 2019.

Dr. Indu Jain presented a paper at IFTR in Shanghai titled 'Theatre Performance and Urbanism', July 8-12, 2019.

Dr. Namita Sethi presented a paper entitled 'Me, But Better Than Me: Self-Representation in Delarivier Manley's The Adventures of Rivella (1714)' at the International Congress on the Enlightenment, organised by BSECS and ISECS at Edinburgh, 14-19 July 2019.

Dr. Swati Pal presented a paper entitled 'Creating and Challenging Myths and Stereotypes: From the Wagah Border Drama to Kiran Nagarkar's Bedtime Story' at the IACLALS Conference 2020 at Jadavpur University, Kolkata, on "Reimagi(n)g Identities: Challenges, Transgressions and Articulation", 5-7 February 2020.

Ms. Nirmala Muralidhar presented a paper entitled 'Eye Sees What the Mind Knows: Early Detection of White Eye Reflex in Children' at an International Conference on "Early Intervention", organised by Amar Seva, Chennai, India, 14 February 2020.

Rajshree Chandra presented a paper entitled 'Occupy Law: In Pursuit of Indigeneity' at the Law Society Association Conference, Washington DC held on 1 June 2019.

डा॰ शालिनी कुमारी हिन्दी विभाग, जामिया मिल्लिया इस्लामिया द्वारा आयोजित अंतर्राष्ट्रीय संगोष्ठी में 25 अप्रैल, 2019 में पत्र प्रस्तुति "प्रवास में पहली कहानी और हरमदर्स एशेज में स्त्रीपात्र"।

डा॰ संध्यागर्ग मानव रचना यूनिवर्सिटी द्वारा 31 जनवरी-2 फरवरी 2020 को आयोजित अंतर्राष्ट्रीय संगोष्ठी, 'पर्यावरण चुनौतियां और समाधान' में, 'वैश्विक पर्यावरण समस्याओं का भारतीय संस्कृति में समाधान' विषय पर प्रपत्र प्रस्तुति

National/International MoUs signed

Dr. Saumya Gupta of Janki Devi Memorial College, University of Delhi has been made Co-Investigator for the Global Challenges Research Fund project granted to UK Research and Innovation-University of Sheffield Project on Forgotten Food: Culinary Memory, Local Heritage and Lost Agricultural Varieties in India funded by the Arts and Humanities Research Council in the United Kingdom on 1 November 2019 to 31 October 2022

JDMC, University of Delhi has entered into a Collaboration Agreement with the University of Sheffield and University of York for the project.

Total Grant to JDMC - £ 20,000, Funding Agency: Arts and Humanities Research Council, United Kingdom, Duration: 2 years +1 year (2019-22)

Placement Details

Number and percentage of student placed: 98 Students (40%)

Number of Companies visited for campus recruitment: 05

Extension and Outreach Activities

From January 13 to 15, 2020 the National Service Scheme (NSS) volunteers conducted a winter clothes collection drive in the college. The collected garments were then distributed among children and adults at the Anand Parbat Transit camp. On November 4-5, 2019 NSS volunteers attended the Indo-Nepal

Wheelchair Basketball Championship held at the Thyagaaj Stadium. The NSS volunteers were divided into 10 teams which were Team India, Team Nepal, Team Food, Team Security, Team Seating, Team Music, Team Stadium, Team Guests, Team Refreshments and Team Ceremonies for assisting the players. On November 2-3, 2019 the NSS volunteers participated in the Vimarsh Yuva Event at Delhi University. From November 1-20, 2019 NSS volunteers carried out various social work at Anand Parbat Transit Camp On October 1, 2019 the NSS volunteers conducted a plastic collection drive on the college premises and also disposed the collected plastic bottles in a plastic bottle collection kiosk in Karol Bagh market. They also conducted a plantation drive. On September 25, 2019 the NSS volunteers participated a in post card writing competition highlighting the various social causes of the country. On same day, a section of the NSS volunteers also attended a public lecture at Delhi University. From March 1-28, 2019 various programmes like campaigns on hygiene, health among women and children, cleanliness drive and teaching was conducted at Anand Parbat Transit Camp.

Library Development

The College Library is the hub of academic activities of the college. It is a trinity of the library staff, reading material and readers. It is a well-equipped and well stocked library with more than 95 thousand books and subscribes to 69 (National and International) journals/magazines catering to the needs of different courses being offered by the college and 14 newspapers (English and Hindi). liLrary is fully computerized using Web based Libsys Software (an integrated Library management system), where all the housekeeping jobs are performed through this software. The database of books and journals available is updated on day-to-day basis and several terminals are provided for students and teachers to search online documents. Internet access is also provided to the users.

We are also sensitive to the needs of our visually challenged users. To provide them equal access, the library has installed a screen reading software NVDA. We also arrange Braille books and talking books.

Library Activities

The College Library organized an orientation programme in the month of July and August for the freshers. Every year, we organize Library Festival, to motivate and inculcate reading habit among students. 3rd year student is felicitated for the “maximum use of the library” and various competitions are organised to engage the students in activities. The book sellers and publishers are also invited to display their books.

Library Development

Text Books	813	(Rs 4,07,633.00)
Reference Books	83	(Rs 1,72,201.00)
Journal/Magazine	69	(Rs 2,22,081.00)
Newspaper	14	(Rs 26,289.00)

Faculty Strength

142 + 27 (Sanctioned under 2nd Trache by the UGC)

Financial Allocation and Utilization

Grant Sanctioned Rs.22,24,75,000

Grant Utilized Rs. 44,44,00,000

JESUS AND MARY COLLEGE

Major Activities and Achievements

The College witnessed a growth spurt in academic, sports and extracurricular activities and achievements in the year 2019-20. Many FDPs and Research Workshops were organised to focus exclusively on infusing a research culture in the teaching learning process. Both teachers and students exhibited exemplary accomplishments. Dr. Reena Marwah was awarded Honorary position as Senior Fellow of INSSL under the Ministry of Defense, Sri Lanka. Students of the Mathematics Department published research papers in “Ramjas Economic Review” as an outcome of the training workshop on R Software. A Certificate Course on Life Skills was launched by IQAC. International Conference on Innovative Approach for Plastic-Free India was organised. International collaborations with educational institutions were established. Many extension and outreach activities were organised. Students continued to excel in Sports at national and international level.

Honours/Distinctions

Dr. Vibha Mathur and Dr. Alka Marwaha recognized as a Research Supervisor by the Department of Commerce and Mathematics respectively by Delhi University

Dr. Reena Marwah, Honorary Position- Senior Fellow of the Institute of National Security Studies of Sri Lanka (INSSL), under the Ministry of Defence, Sri Lanka

Students with Distinctions

In the Ek Bharat Shreshtha Bharat Camp (August 2019), the cadets attained first prize in solo dance (SGT Poonam Kandari), second prize in group song, and won in the Basketball game.

Bronze Medal in Taekwondo at International- 2nd India Open G1- Afreen Hyder

Gold Medal in Badminton at All India FCI- Bhavya Rishi

Research papers published by the students of the Maths Department in Ramjas Economic Review 2019-20 Volume II, ISSN-2582-6093(Online)

Third Position in Ballet Competition Team of 36 cadet

Publications

Asthana, A. (2019). No-First Use Policy: Implications for Politics and Strategy, *Think India*, 0971-1260

Rani, M. (2019). Reliability optimization of sugar mill using Markov approach, *ISA Transactions*, Elsevier Science Inc, 0019-0578

Bangladesh and Nepal: An analysis, *Impact: International Journal of Research in Humanities, Arts and Literature*. 2321-8878

Jasmin, (2019). Divergence in the Wage Share and Profit Share in the Indian Manufacturing Sector, *International Journal of Research in Humanities, Arts and Literature*, 2347-4564 (Print) 2321-8878 (Online)

John, M. (2019). The World of Domestic Workers. *Economic and Political Weekly*. 54 (38): 26-31, 0012-9976

Mathur, V., Arora, S. (2019). India's growing trade relations with SAARC countries with special reference to

Marwah, R. (2019). The Development Trajectories of Thailand and Sri Lanka: A Comparative Analysis, *Millennial Asia*. 2321-7081

Philip, J.K. (2019). Land for dignity' and struggle for 'Identity': Trends in Caste and Class Relations in a Village of South India, *Journal of Agrarian Change*. 1471-0358

Shashwati, S., Sethi, D. (2019), Say No to Setbacks: Grit & Growth Mindset Have Got Your Back, *International Journal of Innovative Studies in Sociology and Humanities*, 2456-4931 (Online)

Susan George, (2019). Women in Film Time: Forty Years of the Alien Series (1979–2019), *IAFOR Journal of Arts & Humanities*. 6(2): 2187-0616

Tohan, S. (2019). Transient Solution of Fluid Queue modulated by two independent birth-death processes, *International Journal of Operational Research*, 1745-7645

Research Projects

NIEPA, 2018-20, "Study on Finances of private Higher educational institutions", Honorarium

National Human Rights commission, 2019-Ongoing, "A study on Social Security and Health Rights of Migrant Workers in India"

SIDBI, 2020-Ongoing, "Assessment study on Community Guarantee/Mutual Credit Guarantee Scheme (MCGS)"

Seminars Organised

Maj. Gen. G G Dwivedi, Professor- Strategic & IR, Management Studies, "FDP on Reimagining Academic Leadership-Redefining the Role of a Teacher and Academic Excellence in the Era of Disruption", 16 December 2019.

Monica Chhabra, Assistant Professor, Ms. Ishita Singh, Assistant Professor, Ms. Charu Sarin Arora, Assistant Professor, Dr. Shweta Paradkar, Assistant Professor, Ms. Kashnie Singh, Assistant Professor, "Workshop on Data Management", 19-20 December 2019.

Dr. Renu Gupta, Associate Professor, Department of Commerce, "Workshop on New Income Tax Regime Vs. Old Tax Regime: Which is better for you?", 3 March 2020.

Prof. Dinesh Singh, Chancellor K.R. Mangalam University and Former Vice Chancellor, University of Delhi, "Life & Careers beyond Covid-19", 12 May 2020.

Dr. Sheeba Marwah, Assistant Professor, Nodal Officer for Covid-19, Department of Obstetrics & Gynecology, VMMC & Safdarjung Hospital, New Delhi, Ms. Angellica Aribam, Founder, Femme First Foundation; Political Activist, Ms. Geeta Seshamani, Vice-President, Friendicoes SECA; Co-founder, Wildlife SOS, Dr. Mridula Tandon, President and Co-founder, Sakshi CEC; Member, CSIR's CAIRD Awards Committee, "Stigma and the Covid Pandemic: Testimonies of Resilience, Resistance and Agency", 25 June 2020

Conferences Organised

International Conference on Innovative Approaches for Plastic Free India (IAPFI-2020), 28 February, 2020

National Seminar on Multiple Childhoods in India - Voices of the Subaltern organised by Department of Elementary Education, 23- 24 October 2019, UGC

National Conference on National Resources Management for Sustainable Development (NRMSD2020), 21 January 2020

National Seminar on The Unconscious Communication in Psychoanalysis, 22 January, 2020, UGC

Seminar/Conference Presentations

Ms. Divya Aggarwal presented a paper entitled, " Role of an individual in utilising organic waste" in an International Conference on Contemporary Issues in Integrating Health and nutrition with the Emerging Areas of Food Technology, Agriculture, Environment and Allied Sciences on 6 April 2019.

Ms. Saloni Arora presented a paper entitled, " Customer Awareness and Adoption of Sustainable Practices: An Empirical Study on Banks in India in Summit on Sustainability & CSR by PHD Chamber of Commerce and Industry, New Delhi on 23 August 2019.

Dr. Shikha presented a paper entitled, ' Multi-switching Synchronization of Chaotic Systems via Sliding Mode Control in National Conference on Advances in Mathematical Analysis and its Applications on 8-10 November, 2019.

Dr. Ameeta Motwani presented a paper entitled, " Sustainability Reporting and SDGs: The way Forward in VIPS Conference 2020 on "Sustainability, Governance and Responsibility" on 23-24 Jan 2020.

National/International MoUs Signed

Collaboration between IQAC and Public Policy and Analysis Cell, JMC with Hertie School, Germany: Visit of Mr. Axel Bausch, MD Hertie School, Berlin to JMC in October 2019.

Students under Exchange Programme

One student Ananya Malik attended Cambridge Summer Internship from 7/07/2019 to 20/07/2019 as part of academic collaboration with American Business School (ABS) in Paris, Dr. Fady Fadel conducted an orientation for the short term- luxury brand management course which was partly held in India and partly in Paris, France. 19 Students from JMC enrolled for this course.

Placement Details

Total Number of Students Placed - 373 approx

Total Number of Companies visited for campus recruitment – 80 approx.

Extension and Outreach Activities

Number of activities were carried out throughout the year. Some of these are: Paper Collection Drive in collaboration with Nawaazish Foundation and Raunak- Helping Hands by Department of Commerce in collaboration with Nawaazish foundation. BeGood Festival- For Earth' festival aimed at promoting sustainable ways of living collaborated with NGO 'OurVoix', Daan Utsav – Raised money for NGO Guzaarish- Books for All in collaboration with Indian Oil Corporation, Book Donation Drive in collaboration with an NGO etc.

Library Development

The Library acquired 532 books during 2019 – 2020 out of which 501 are textbooks and 31 are reference books. The total collection of the Library books has been augmented to 48,658 books. Total 95 journals have been subscribed during the year. The Institution has access to 6000 e-journals and 98000 e-books through INFLIBNET-N-List which can be remotely accessed. Additionally, a lot of e-resources are available through DU wifi.

Total expenditure on Books - Rs 378,364

Total expenditure on Journals - Rs 492,107

Total expenditure on e-books/e-journals - Rs 5,900

Faculty Strength

Permanent 70

Ad-hoc 59

Financial Allocation and Utilization

Grant Sanctioned Rs. 34,31,83,000

Utilized Rs. 42,13,35,706

Other Significant Information

Faculty Development Programme on ‘Climate Across the Curriculum: Educational Resources for Teachers’ for teaching staff on 28/01/2019 and on ‘Reimagining Academic Leadership- Redefining the role of Teacher’ and ‘Academic Excellence in the Era of Disruption’ by Maj. Gen. G G Dwivedi for teaching staff on 16/12/2019. Activities such as .Awareness programme (a rally on water conservation, a talk, a tree plantation programme and poster making competition) under the JAL SHAKTI ABHIYAN which is an initiative of the Department of Drinking Water and Sanitation, Ministry of Jal Shakti, Government of India

KALINDI COLLEGE

Major activities and achievements

Academic session 2019-2020 has been extremely successful and satisfying in terms of accolades and accomplishments. During this coronavirus pandemic, our 53rd Annual Day was celebrated on Virtual Platform. In order to conserve financial resources and to show solidarity with all those who are afflicted by the coronavirus pandemic, our college decided against spending any money on printing of Annual Report, College Magazine and Academic Journal and this time the aforesaid documents were only uploaded on our college website. In this academic session, Kalindi College has imparted education to **3907** regular students, **1407** Non-Collegiate students and **2500** SOL students. The college is offering a total of **21** courses in various disciplines at graduate level and **6** additional add on courses. Numerous academic accomplishments, Research Activities, Seminars, Conferences, Workshops, Lectures and Talks organized by all the departments, College Publications, various Sports and Cultural Activities, Social Welfare Projects, Community outreach activities of the students and staff members bear testimony to the outstanding success of various initiatives taken up by the college in this academic session. In this session, a

total of 35 In-house, 3 majors externally funded and 5 College infrastructure supported Research Projects are undertaken by faculty and students. Further, a total of 12 Ph.D. students are supervised by our faculties. This time, 83 Faculty members have given entries under “Achievements of Faculty Members” section of Annual Report.

Honours/Distinctions

Dr. Anula Maurya, Erstwhile Principal: Appointed Vice Chancellor, Jagadguru Ramanandacharya Rajasthan Sanskrit University, Jaipur, Rajasthan, August, 2019; conferred with “International Extraordinary Women Award - 2020” in recognition of her valuable contribution in the field of University, Higher Education in Sanskrit organized by International Women's Club, Switzerland Chapter, Geneva, Switzerland held on 28 June, 2020 conferred with “Iron Lady Samrasta Award – Gold Medal” by Indo Nepal Samrasta Organisation on 31 October 2019.

Dr. Anjula Bansal, Principal was awarded with Prof. (Dr.) Ram ji Lal Jangid Vanijya Ratan Samman 2019 held on 7 November, 2019 and as Best Professor in Commerce Studies on 20 December, 2019, Dewang Mehta National Education Award.

Students with Distinctions

Prachi Aryal of B.A (H) Journalism secured First Rank in University.

Publications

Bassi, M., Bharadvaja, A. Baluja, K.L. (2019). Elastic and Vibrationally-resolved excitation cross-sections for electron impact with MgF radical using R-matrix Eur. Phys. J. D 73:187 <https://doi.org/10.1140/epjd/e2019-100057-0>.

Chauhan, R.(2019). An Exceptional Economist: Dr. B.R. Ambedkar” in Ambedkar’s Vision of Socio-Economic Transformation, New Delhi, Sanjay Prakashan, Roshan Offset Printers, pp- 71-82, ISBN 978-93-88107-77-8.

Giri, N. (2019). Legislative Practices and Procedures in India, Kunal Books: New Delhi, ISBN: 978-93-89224-09-2

Iqbal, S. (2019). Renewable Resource-Based Environmentally Friendly Waterborne Polymeric Anticorrosive Nanocomposite Coatings” in Green Polymer Chemistry and Composites: Pollution Prevention and Waste Reduction, Apple Academic Press.

Kumar, P. (2019). Capital Output Ratio in Micro and Small Enterprises. *International Journal of Research and Analytical reviews*, 6 (2), 515-519.

Mishra, R. (2019). Adoption of genetically modified crops can ensure food security in India. *National Academy Science Letters*. DOI<https://doi.org/10.1007/s40009-019-00829-7>

Pundir, R. (2019). Historical Monuments in India – Analyzing financial viability of their maintenance expenditure”. *International Journal of 360 Management Review* (E-ISSN-2320-7132). 7 (02).

Sahdev, S. - Geocology of Landscape Dynamics. Springer: Advances in Geographical and Environmental Sciences (<https://doi.org/10.1007/978-981-15-2097-6>).

Verma, A. (2019). An exploratory study related to consumers purchase preference for green/ ecofriendly product” in book titled Functional management contemporary issues (ed Manisha Verma). Bharti publication. ISBN no:978-81-941162-7-1.

Journals

Published by the College ONE

Number of college teachers serving as Editor(s)/ Members of Editorial Board: Nine

Research Projects

Inter University accelerator centre (IUAC), New Delhi, 2013 (ongoing), X-Ray Spectroscopy of Highly Charged Slow Ions with Atoms and Solids, Dr. Punita Verma

DST- SERB, (Project Code: ECR/2017/000590), 2017-2020 Functional interaction between vasotocin and corticosteroids in catfish *Heteropneustes fossilis*, Dr. Varsha Singh , Amount: Rs. 23,07,201/-,

DBT Project Foldscope, completed on 15.9.2019, Evaluation of health improvement in Fish challenged with bacteria and fed on supplemented feed, Dr. K Vandana Rani, Amount: Rs. 8,00,000/-

Seminars Organized

National Workshop organised by IQAC, Kalindi College & Mahatma Hansraj Faculty Development Centre, Hansraj College on “Recent Trends in Research Methodology, e- content, Mathematical and Statistical Methods in Open Education World” from 17 - 23 December 2019

National Seminar organised by Dr. B.R. Ambedkar Study Centre and Department of Journalism, Kalindi College on “*Legacy of Dr. B. R. Ambedkar in media: Analysis and Impact*” on 20- 21 August 2019

National Seminar organised by Department of Journalism, Kalindi College “*Communication and Social Change for the Marginalized and the Underprivileged*” on 5-6 September, 2019.

National Seminar organised by Women’s Development Cell, Kalindi College, University of Delhi on “*Engendering Laws and Crimes against Women: Challenges and Prospects*” on 12 February 2019.

National Seminar organized Women’s Development Cell, Kalindi College, University of Delhi on “*Legal Awareness Programme*” on 4 March 2020.

Conferences Organized

National Conference organised by Computer Science Department, Kalindi College on “*Emerging Trends in Information Technology*” (NCETIT-2019) on 1-2 August 2019.

Seminars/Conference Presentations

Pawan Kumar, presented a paper entitled "Influence of host-plants on nutrition and gut proteolytic digestion in two populations of *Pieris brassicae* L. from Kashmir and Delhi, India” at International Conference at Entomological Society of America, ESA, Annual Meeting, November 2019 St. Louis, MO.

Aprajita, Gaur presented a paper entitled ‘National Conference on Recent Trends in Chemical Sciences & RSC Workshop on Periodic Table: Boon for Mankind’ held at Hotel Maidens, Sham Nath Marg, Delhi on 30 August- 1September 2019.

Anita Verma presented a paper entitled “Examining Relationship Between Demographic Variables and Customer’s Adoption Of Digital Payment System” at Academy for Global Business Advancement– (AGBA) 16th World Congress Held at Indian Institute of Technology-Delhi on 2-4 July, 2019

Manju Sharma presented a paper entitled ‘Vartmaan Sandarbhon Mein Kamaayni Ki Prasangikta’ in One Day National Seminar on Kamayni Aur Geetanjali Ka Vaishishtya Organised by Shivaji College, DU in Collaboration with Mahakavi Prasad Foundation on 13 November 2019.

Rini Pundir presented a paper entitled “Historical Evidences of Paradigm Changes in Higher Education System” at the three days International Conference on “Ancient Wisdom Civilizational Antiquities and the contemporary Universe” held during 31 January to 02 February/2020.

Manisha, presented a paper entitled “Social Construction of Gender through mediated communication in India” in an International Conference, on Current Practices and Future Trends Media Communication, held at Amity University DUBAI during 17-19 June, 2019.

Prem Pal presented a paper entitled “Vedic Mathematics an Analysis and Applications in Modern Era” on “International Sanskrit Conference on Global Thinking of Sanskrit Knowledge and Science”, 3-5 March, 2020, Jagad Guru Ramanandacharya Rajasthan Sanskrit University, Jaipur, Rajasthan, India.

Bindal, Pushpa. and Srivastava, Triranjita. presented a paper entitled "Macrobending losses in Multimode Optical Fiber; An Experimental Study", National Conference on Advanced Materials: Theory and Applications", 26-27 September 2019 at Hans Raj College, University of Delhi.

Charanda, Meena. presented a paper entitled ‘Buddhist Approach to Global Leadership and Shared Responsibility for Sustainable Societies’ at the 2019 UNDV International Buddhist Conference held at Tam Chuc Convention Center, Ha Nam Province, Vietnam from 12-14 May 2019.

Manju Lata. presented a paper entitled. “Prashad ka Manviya Saundarya chitran (Stri Saundarya ke pariprekshya main)” in one day National Seminar organised by Sahitya Sangam and Mahakavi Jayshankar Prashad Foundation in Shivaji College on 13 November 2019.

National/International (MoUs) signed

With Indian/Foreign Universities

Kalindi College signed a Memorandum of understanding (MOU) with Institute of Bioresources and Sustainable Development, Imphal, Manipur on 25 January 2017, to set up an **IBSD-Kalindi Centre for Women Entrepreneurship** in North East at Kalindi College.

With Indian/Foreign Companies/Industry

TERI School of Advanced Studies (TERI SAS) and Kalindi College 2018-19.

Microbial Diversity in Forest Landscape Restoration Initiatives at Coal Mines under an MOU with TERI School of Advanced Studies.

Memorandum of Understanding was signed on 10 September 2018 by IQAC, Kalindi College with IQACs of eight other colleges of the University of Delhi

Kalindi College and ICT Academy signed a MOU for the Skill Development Training Programme for 100-hours Digital Literacy.

The college has undertaken this project on the open roof top, in consultation with the Govt of NCT of Delhi. The project has been undertaken by **Hero Solar Energy Pvt. Ltd**, New Delhi, under the project name “**61.75KWp Grid Connected Solar Power Plant at Kalindi College**”, which has been installed under IPGCL Scheme. The design, supply, installation, commissioning, operation and maintenance is being done

by Hero Solar Energy Pvt Ltd. The project is successfully generating 61 KWp in the college. The MoU has been signed for 25 Years.

Placement details

Number of students getting successful placements- 09

Number of Companies/Industries coming for campus recruitment - 02

Extension and Outreach Work

Under the concept of Service to Humanity, we are running NSS, Social Responsibility Cell, Eco club, Dr. B.R. Ambedkar Study Centre, SC/ST Cell, "North East, Frontier and Foreign Students' Cell", Equal Opportunity Cell, Gandhi Study Circle, Woman Development Centre, Anti-Tobacco Committee, NCC. College is successfully running Non-Collegiate Centre and School of Open Learning Centre. The Central Placement Cell "Kryptus" of Kalindi College is energetically working for the placement of students. We are also providing Counselling and Medical facilities to our students. The NSS unit of the College organized various events during the year 2019-20. The year began with celebration of "World No Tobacco Day" on 31 May, 2019. Other activities organized include Jal shakti abhiyaan on 29 July 2019, swachhta pakhwada from 1-15 August 2019, celebration of 50th NSS Day" on 24 September, 2019 with the theme swachhta hi seva. A talk on cancer awareness and free health checkup camp" on 30 September, 2019. NSS Unit also celebrated "Rashtriya Ekta Diwas" on 31 October, 2019, Constitution day" on 26th November 2019, National girl child day" on 24 January 2020 and National voters day on 25 January, 2020

Social Responsibility Cell Activities and Achievements

On 4 April, 2019, Enactus Kalindi participated in the Release of Safai Karamchari's Manifesto 2019 by Safai Karamchari Andolan at Indian Social Institute.

On 19 June, 2019, Enactus Kalindi collaborated with Bandicoot by GenRobotics Innovation. GenRobotics foundation is a Non-profit initiative to GRI to rehabilitate and support Manual Scavengers and Sanitation workers.

On 8 July 2019 We, at Enactus Kalindi in partnership with APS AGRO, conducted a training workshop for the farmers in various areas of Delhi and educated them with natural ways of growing crops, effective utilization of ancient practices and formulas for betterment of crop production in terms of quality and quantity.

On 13 July 2019 Enactus Kalindi was a part of the top 30 teams across India competing in the Enactus India National Symposium and Competition 2019. We presented our two flagship projects Weran and Rehmat and received significant appreciation from everyone.

On 24 July 2019 We at Enactus Kalindi in association with the Federation of Indian Women Entrepreneur conducted a Skill Development and Training Awareness Programme in the presence of honourable Mr. Pawan Kumar Sharma, MLA Jahangirpuri, Aam Aadmi Party.

On 23 August 2019, we participated in the First World Youth Conference on Kindness organized by UNESCO MGIEP on the theme: Vasudhaiva Kutumbakam: Gandhi for the Contemporary World, Celebrating the 150th birth anniversary of Mahatma Gandhi.

On 12 September 2019 Enactus Kalindi, conducted "Say NO to single use plastic drive" with Sulabh international social service organization in areas of Patel Nagar and Connaught place.

On 17 September 2019 Enactus Kalindi in association with Sulabh International Organization, celebrated our respected prime minister Narendra Modiji's birthday as "Swachhta Diwas" by conducting a "Say No To Single Use Plastic" rally at Constitution club of India supporting prime minister's initiative to scrap the use of plastic and wipe it from the face of the world.

From 2-8 October, 2019, we participated in the fund-raising campaign organized at Indian Oil Petrol Pump, by Enactus Kalindi under the "Daan Utsav", an initiative by the NGO guzarish.

On 1 November 2019 Enactus participated in the Bplan Competition organized by ARSD College and bagged 2nd Position.

On 26-27 February 2020, Enactus Kalindi put up a stall at Kalindi College's annual fest Lehen'20. The stall had Swatchch handwash prepared by the women community of manual scavengers to whom the members of Project Rehmat gave training.

On 14 March, 2020, Under Project Weran, we organized a Training and Workshop Session for the women of Jahangirpuri and trained them in making of apple-flavored handmade Afza Jams, thereby transforming them into self-sustained entrepreneurs.

Library Development

The library resources have been enhanced during the year **2019-2020** and the total collection of the library reached up to **83,464 books** including Book Bank and Student Aided Fund books. The Library users have been able to enlighten themselves by going through the newly added books. At present library is subscribing **87 magazines/journals and 14 newspapers** in English and Hindi languages on different areas of interest for its readers. The library has a web center to access e-resources, separate reading room for consultation purposes and photocopy facility for the students and staff. The remote login access of e-resources through N-List login ID and DELNET is also provided by the library.

Faculty Strength

Permanent: 80

Ad hoc: 119

Financial Allocation and Utilization (in Lakhs)

Grant Received Rs 5500.30 (Salary and Non-Salary maintenance grant received from UGC and Delhi Admin) Utilized Rs 4937.81(expenditure against Salary and Non-Salary maintenance grant)

KAMALA NEHRU COLLEG

Major Activities and Achievements

Kamala Nehru College has been selected as one of the four Mentor Institutions under the 'Paramarsh' Scheme of UGC following the 'Quality mandate' in higher education. Our Mentee institutions are Aryabhata College, Satyawati College (E), Motilal Nehru College (E) and Indian Institute of Design and Craft, Jaipur. This year was also marked with excellence in various research projects as well as workshops on a range of themes. The college also organised a number of programmes for gender-sensitisation and awareness, and hosted lectures, seminars, and panel discussions on the same with speakers like Prof. Kumkum Roy, Dr. Charu Gupta, Ms. Sushmita Dev, Prof. Jayati Ghosh and more. On the administrative and infrastructural front, tactile paths have been laid out in

the college and ramps constructed in New Seminar Room to make the college infrastructure accessible for all, four sanitary napkins vending machines have been installed in rest rooms and common room, and an SBI mobile ATM has been made available daily for the ease of staff and students.

Honours/Distinctions

Dr. Kalpana Bhakuni received a National Award, Bhugol Shastra Bhushan from the Deccan Geographical Society of India in September 2019.

Dr. Renu Bali was the recipient of the Award for College Lecturers given by Directorate of Higher Education, Delhi Government for the year 2019.

Dr. Sushma Choudhary of the Sanskrit Department received the Krantidhara Antrarashtriya Sahitya Sadhak Samman-2019 at Meerut Literary Festival.

Ms. Homolata Borah received the 'Mary Fran Myers Scholarship Award' from Natural Hazards Centre, University of Colorado, USA in 2019.

Ms. Shikha Gupta of the Commerce department won the award for Best Paper Presentation at an International Conference organised by Global Research Foundation.

Students with Distinctions

Shivpreet Pannu secured the first position in Asian Youth Championship 2019 in female junior Speed Climbing.

Kirti Gupta won Gold medal in junior category at the 9th Asian Shotgun Championship held at Kazakhstan. She also won team Silver and mixed team Bronze medal at the 9th Asian Shotgun Championship held at Kazakhstan in 2019.

Cadets CHM Khushi Bharadwaj, Cadet Poonam and Cadet Angel represented the Delhi Directorate in Republic Day Camp in January 2019, which was held at Rajpath, New Delhi. CHM Khushi Bharadwaj was awarded with the All India Junior Under Officer Rank in the camp.

In November 2019, the student convenors of Luminoso, the Fine Arts Society Anoushka Gogoi and Shagun Dhir, represented our college at the India International Science Festival, held in Kolkata. They participated in the exhibition of handmade art and crafts products prepared by our fine arts team.

Publications

Christy, C. (2019). Anu and Saleena Narrating Life: Subjects and Spaces. *Dalit Text: Politics and Aesthetics Reimagined*, Judith Misrahi Barak, K. Satyanarayana and Nicole Thiara, eds. New Delhi & London: Routledge, pp 105-120.

Chaudhary, S. (2019). Ramayan mai Manviya Mulya. *Akados*, Vol XIII. Kamala Nehru College, University of Delhi.

Pragati, G. Verma, S. (2019). *Numerical Method Practical Mathematica*.

Paul, N. (2019). Pride and Prejudice: Intersectional perspectives on identity formation through Indian Pride events *Women's and Gender Studies in India: Crossings*. Ed. by Anu Aneja. London and New York: Routledge. 128-136.

Ray, Nupur (2019). *Discourse on Rights in India: Debates and Dilemmas* co-ed. Routledge.

Vasishth, V. Sehgal, S. (2019). "Explaining Value vs. Growth Fallacy: An Empirical Study for Indian Market". *Asian Journal of Finance and Accounting*, 11 (2): 42-65.

Journals

Published by College *Akados*

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 4

Research Projects

Scheme for Promotion of Academic and Research Collaboration (SPARC), MHRD and IIT-Kharagpur, 2019-21, *Yoga Consciousness in Mahābhārata and Bhagavadgītā: The Ethical Value for Societal/Political Wellbeing*, 73 Lakhs

IMPRESS Scheme of ICSSR, 2019, Gender, *Mobility and Informal Entrepreneurship in Contemporary Handicraft Industries*" and "Green Consumption in India: A Study of Changing Organic Food Consumption Patterns in Delhi and Bhubaneswar.

ICSSR, Declining Child Sex-Ratio and Violence against Women: Examining Girl-Child Discrimination in India.

Seminars Organized

Prof. Chandan Kumar (Department of Hindi, University of Delhi), Dr. Ramagya Shashidhar (Associate Professor, Banaras Hindu University), Prof. Sudhish Pachauri (Department of Hindi, University of Delhi), Mr. Anant Vijay (Associate Editor, Dainik Jagran), Writer Vivek Mishra, Prof. Sheoraj Singh Bechain (Department of Hindi, University of Delhi), Writer Hariram Meena, Prof. Kusumlata Malik (Department of Hindi, University of Delhi), Writer Subhash Akhil, *Ikkisvi Sadi ka Hindi Katha Sahitya: Chintan ki Vividh Dishayein*, 5 to 6 September 2019.

Prof. Deepti Tripathi, Prof. Kamala Bhardwaj, Dr. Meera Dwivedi, Prof. Santosh Kumar Shukla, Prof. Devendra Mishra, Dr. Bhartendu Pandey, Prof. Amita Sharma, *Anbhavaad Vimarsh*, 21 September 2019.

Prof. Mahesh Rangarajan (Dept. of History, Ashoka University), Dr. Sudha Vasan (Dept. of Sociology, Delhi University), Prof. Savyasaachi (Dept. of Sociology, Jamia, Millia Islamia), Prof. Samuel Asir Raj (Dept. of Sociology, Manonmaniam Sundaranar University), Dr. Smriti Das (TERI), Mr. Ritwick Dutta (Environment Lawyer, Supreme Court), Prof. Amita Singh (Centre for the Study of Law and Governance, JNU); *Environmental Crisis, Ethics and Social Justice: A Critical Perspective*, 4-5 April 2019.

Achira Chatterjee (Mental Health Expert), *Community Mental Health*, 12 September 2019.

Dr. Jayshree Gupta, Director (Consumer India) and Dr. Sushila (Project Director from National Law University, Delhi), *Consumer Rights and Protection Awareness*, 30 August 2019

Seminar/Conference Presentations

Mr. Anish Chakravarty presented a paper entitled, "The Ambivalence of Laughter and its Aftermath: An Existential Perspective" at the International Conference 'Humour and Performance of Power in South Asia: Anxiety, Laughter and Politics in Unstable Times' Co-organised by Department of Sociology, South Asian University, Delhi and International Centre for Ethnic Studies, Colombo, held at International Centre for Ethnic Studies, Colombo, Sri Lanka during 27-28 June 2019.

Dr. Archana Prasad presented a paper entitled, “Industry 4.0 and the Future of Workers’ Rights in global supply chain: Reflection on CSR practices in Garment Industry” as part of the two-day International Conference on Industry 4.0 and future of work, organized by IILM University, Gurugram during 6-7 December 2019.

Dr. M V Shobhana Warriar presented a paper entitled, “New Perspectives in Feminist Labour History: Work and Activism’ at the Feminist Labour History Network conference at the University of Bologna on 17-18 January, 2019.

Ms. Neha Singh presented a paper entitled “Dexter’s Design: Crime, Morality and Violence in Dexter” at the “4th Interdisciplinary National Conference, Indian Popular Fiction: Redefining the Canon” organized by Department of English, Maharaja Agrasen College, University of Delhi during 16 -17 January 2019.

Ms. Parul Tomar presented a paper entitled, "From Green Consumerism to Green Citizenship: A Transitional Analysis along with the Role of Sustainable Development" in an International Conference on ‘Sustainable Development and the World Economy’ by Department of Commerce, Janki Devi Memorial College on February 4-5, 2019 at India International Center, New Delhi.

Dr. Rupali Khanna made a presentation on ‘Sustainable Consumption and Wellbeing in Green Public Spaces – Singapore Study’ at University of Geneva (UNIGE), Geneva, Switzerland on 27th November 2019 at the Workshop - GRESPA (Green Public Spaces in South East /Asia).

Dr. Sarita Ghai She also presented a paper entitled, “Religion and Religiosity in a Himalayan Tribal Community: A Study of Jaunsaris” at the international conference on Religion and Religiosity at Munster, Germany on 25 June 2019.

Ms. Sarulakshmi presented a paper entitled ‘Critical Study of India’s Emigration Policy Relating to Un-Skilled Women: An International Legal Perspective’ in Indian Council of Social Science Research (ICSSR), Ministry of External Affairs and Office of the Registrar General and Census Commissioner, India co-sponsored International Conference organised by the Centre for Diaspora Studies, Central University of Gujarat Gandhinagar, Gujarat in March 2019.

National/International MoUs Signed

The Equal Opportunity Cell of KNC signed an MoU with 'Inside Me', an NGO wherein our students regularly visit their schools to help them in art and craft.

The college signed an MoU Chintan, an NGO working on waste management for responsible disposal of electronic-waste by licensed recycling units.

MoU has been signed with the NGO, Family of Disabled (FOD), whereby old newspapers are provided for making pencils out of recycled paper to generate employment for the differently-abled people.

Other Inter-Institutional Collaboration

Kamala Nehru College in collaboration with Department of Philosophy, DU has been awarded with SPARC (Scheme for Promotion of Academic and Research Collaboration) by the Ministry of Human Resource and Development, Govt. of India and IIT Kharagpur for 2019-2021 on *Yoga Consciousness in Mahābhārata and Bhagavadgītā: The Ethical Value for Societal/Political Wellbeing*.

KNC co-hosted a seven-day international Residential Seminar on *Happiness and Good Life: Philosophical Reflections through Cultures* for which Dr. Nirban received a funding of 3 Lakhs from the Indian Council of Philosophical Research (ICPR) and MHRD, Govt of India.

Placement Details

Number of students placed: 35

Number of Companies visited for campus recruitment: 15

Extension and Outreach Activities

The Equal Opportunity Cell of KNC marked the 'International Cane Day' in College premises to sensitize people about the importance of white cane in the life of the visually impaired. A community outreach programme was also organised in two blind schools of Delhi. Consumer Club, KNC became the proud partner of The Kailash Satyarthi Children's Foundation Consumer Campaign, run by the celebrated Children Rights activist and the Nobel Peace Prize recipient, Shri Kailash Satyarthi. With the initiative of Green Beans Society of KNC, in November 2019, the College canteen composting plant was inaugurated and a short training programme for the students and the canteen staff was conducted by Mr. TRN Rao, who has been associated with Swarn Vasudha, an organization working on household composting. In another unique initiative of Green Beans Society, the students calculated the water footprint of a representative sample of 800 students at Kamala Nehru College. The survey was conducted using the water footprint calculator developed by the researchers at UNESCO-IHE from waterfootprint.org. The NSS unit of KNC organized cleanliness drives in the month of August 2019 in four phases to mark the Swacchta Pakhwada. Kendriya Vidyalaya, Sadiq Nagar and the Green Park Market were cleaned as part of this drive. On the occasion of Gandhi Jayanti, the NSS Unit of KNC organised a cleanliness drive in the college campus to contribute to Swachh Bharat Abhiyan to commemorate Gandhiji's 150th birth anniversary. The NSS mobilized the college community to curb Single Use Plastic under Swacchta Hi Sewa Abhiyan.

Library Development

An e-resources section for the students has been set up in the library with 12 work stations. The teachers' Research room in the library has been renovated and equipped with laptops on all the desks with wi-fi connectivity.

Faculty Strength: 158

Financial Allocation and Utilization

Library	Rs. 17,87,157
New Equipment for Laboratories	Rs. 2,37,147
Other Expenditure on Capital Assets	Rs. 11,53,560
Salaries	Rs. 29,62,52,064
Maintenance of Academic Infrastructure or consumables	Rs. 79,83,600
Seminars/Conferences/Workshops	Rs. 5,06,036

Other Significant Information

Kamala Nehru College has been selected as the Mentor Institution under the 'Paramarsh' Scheme of UGC following the 'Quality mandate' in higher education. Kamala Nehru College is one of the four colleges in Delhi University to be awarded 'Paramarsh' for mentoring the mentee institutions to enable them to get NAAC accreditation by 2022. Our Mentee institutions are Aryabhata College, Satyawati College (E), Motilal Nehru College (E) and Indian Institute of Design and Craft, Jaipur.

KESHAV MAHAVIDYALAYA

Major Activities and Achievements

The year 2020 is of special significance for the college as the college has completed 25 years of excellence in education ever since the inception of the college in 1994. The college celebrated the Silver Jubilee function on 22 October 2019 to mark 25 years of excellence in education. A Spic Macay event was organised that witnessed a mesmerising Odissi dance recital by renowned artiste Padma Shri Ms. Madhavi Mudgal, one of the leading classical dancers of India, and her disciples Ms. Shobha Bisht and Ms. Shalakra Ray. Under the aegis of NSS unit of the college, the students organised and participated in a number of activities: International Yoga Day, Jal Shakti Abhiyaan, Swachhta Hi Seva Campaign, Rashtriya Ekta Diwas, FIT India Movement, Constitution Day, National Voters' Day, Gandhi Jayanti Celebrations, Swachhta Pakhwara, Voters' Awareness Programme, to name a few.

Honours/ Distinctions

Dr. Jasmeet Singh, from Physics Department has been awarded The Royal Society International Exchange Award for doing Research in collaboration with University College London, UK, March 2020.

Dr. Geetanjali Sageena, from Department of EVS, has received the 'Paryavaran Ratna Award' at 4th Global Nature Film Festival 2019 organized by Vishwa Mitri Parivaar.

Dr. Vandana Gambhir nee Chopra, from Department of Psychology, has been awarded with 'Outstanding Career Practitioner Award' at APCDA Awards Ceremony 2020 and Member Meeting for providing Career Services for Students and the wider Community.

Two faculty members Dr. Richie Aggarwal, Assistant professor, Department of Maths and Dr. Ruchi Goyal, Assistant professor, Department of Commerce, have successfully completed their Ph.D.

Students with Distinctions

Nemank Yadav from B. Sc. (H) Mathematics, final year, participated in 2nd Sangrur Heritage International Tournament 2019 held at Sangrur, Punjab, and won cash prize worth Rs. 3,000. He also secured second position and cash prize worth Rs. 55,000 in Lake City Winter Chess Tournament 2019 held at Udaipur, Rajasthan.

Rohit Mittal from B. Sc. Mathematical Science, final year, secured fourth position in Inter College Taekwondo Championship 2019-20 and first position in West District Taekwondo Competition 2019-20.

From B.Sc. (H) Comp. Sc., Somya Gupta and Manav Arora of first year secured second position in Inter College Poster Paper Competition held on March 4, 2020 organized by Indraprastha College for Women, University of Delhi. The topic for the research poster was 'ML Applications in Cancer Prognosis and Prediction'.

Yashnit Kalra of final year made his place at 2,30 4th position out of 13,650 contestants internationally in the Google Kick Start, Online Google Platform.

Publications

Singh, D., Kumar, S., Tyagi P.K. (2019). Robust Estimation with Geometric Distribution Under a Class of Period. *International Journal of Agricultural and Statistical Sciences*. 15(1): 433-438.

Nisar, S., Hashem, S., Macha, M.A., Yadav, S.K., Muralitharan, S., Therachiyil, L., Sageena, G., Al-Naemi, H., Haris, M., Bhat, A. A. (2020). Exploring Dysregulated Signaling Pathways in Cancer. *Current Pharmaceutical Design*. 26(4): 429-445.

Deepak S., Bhatia H., Chadha N.K. (2019). A Psychological Study on the Positive Impacts of Experiencing Love. *IAHRW International Journal of Social Sciences Review*.7(3): 513-518.

Chaudhary S. Bhatia H. (2019). Passion and its Outcomes: Implications on Positive Psychology. *IAHRW International Journal of Social Sciences Review*. 7(5-III): 1702-1705.

Kaur, S., Baluja, K.L., Singh, J., Bharadvaja, A. (2019). Vibrationally-Resolved Excitation and Dissociation Collision Strengths of AIO⁺ by Electron-Impact Using the *R*-matrix Method. *The European Physical Journal D*, 73, Article no. 142.

Arora P., Arora H. (2019). Efficiency of Thrift Agents of Small Urban Borrowers: The Case of Scheduled Urban Cooperative Banks (SUCBs) in India. *International Journal of Indian Culture and Business Management*, 19(4), 434-451.

Kumar, P. (2020). Eclectic Approach of Administrative Management-Transition from Traditional to Modern Approach of Management. *Journal of the Social Sciences*. 48(2): 0253-1097.

Arora, R., Tandon, A., Aggarwal, A.G., Verma, V. (2019). Testing Resource Based Optimal Release Policy for Software System Incorporating Fault Reduction Factor and Change Point. *International Journal of Recent Technology and Engineering*, 8(4), 1909-1920.

Ramchandani, S., Goyal, R. (2019), Impact of Employee Engagement on Stakeholders: A Review Study. *Think India Journal*, 22(14), 51-60.

Chaudhary, J.P., Ram, S.D., Singh, L.P.(2019). The Plane Piston Problem with Weak Gravitational Field in a Dusty Gas. *Journal of King Saud University-Science*, 31(4), 1027–1033.

Jha, A.K., Gupta, S.K., Kumar, A., Chaubey, M.K., Singh, J. (2019). Big Data Analytics: An Indian Perspective. *International Journal of Recent Technology and Engineering*, 8(3), 2943-2949.

Seminars Organised

Internal Quality Assurance Cell (IQAC) of the college is association with ICT Academy (non-profit society), a Government of India initiative, organized a seminar on April 5, 2019 to empower the students on the topic 'Employability Skills for Future'.

A two-day digital literacy workshop for non-teaching staff was also organized on 4 to 5 April 2019. Several other power seminars were organized in collaboration with ICT Academy, one such seminar on the topic 'Start-up Conclave' took place on 8 August 2019, one on 'Stress Management' was held on 15 October 2019, another one on "Striding from Campus to Corporate World" was organized on 28 January 2020.

BLITZ, the Computer Science Society organized a seminar on 'Python' on 27 September 2019

Conference Presentations

Dr. Harpreet Bhatia presented a paper entitled," Mass Rationalization and Terrorism in ICSSR sponsored 3-day conference "Perspectives on peace and sustainable development in a World of Conflict" at Vivekananda College, University of Delhi on 13 to 15 February 2020.

Dr. Mona Ranga presented a paper entitled, "Consumer Perception Towards Genetically Modified Food. UGC sponsored National conference on Food safety, Nutritional Security and Sustainability on 6 to 7 March 2020.

Dr. Ruchi Goyal presented Two Papers entitled Corporate Governance in Airline Industry from Employees Perspective: An Empirical Evidence and Impact of Employee Engagement on Stakeholders: A Review Study, *First International Conference on Corporate Governance: Issues, Challenges & Changing Paradigms* organized by Global Research Foundation for Corporate Governance at India International Centre, New Delhi, India. 7-8 September 2019.

Placement Details

Number of students getting successful placements: 57

Number of companies coming for campus recruitment: 10

Extension and Outreach Activities

METAMORPHOSIS, the society of the Department of Management Studies organized the tenth edition of its school outreach event *Challenge. Enrich. Outperform (C.E.O.)* on October 24, 2019 with the theme, *Dusk of a Decade, Dawn of Another*. A successful Digital Entrepreneur, Mr. Pravin Wadalkar, Co-founder & CEO at Technizer IIT, addressed the students on the occasion. 'Enactus', the Social Entrepreneurship Cell of the college is working on three projects namely, Project Ehsaas, Project Sahaytaa and Project Pehl. Project Ehsaas has made significant strides in managing plastic waste produced in schools and colleges. Project Pehl has brought skill development, employment and self-reliance to the under privileged women of Tarun Enclave, Pitampura, Delhi. Project Sahayta has voiced the struggles of 'kumhars' who are striving to make a living out of the dying art of pottery.

Library Development: The college maintains a well-stocked double storey, spacious, fully automated library comprising a large reading room. It is a web-based Library. The data of the Library is available on NIC Cloud through e-Granthalaya software. Presently college becomes a member of N-List –Database. Various e-resources (e-books and e-journals) provided by N List are now available for Keshav Mahavidyalaya. The library has various sections consisting of around 28000 books. It has a rich collection of textbooks, reference materials, and encyclopedias of various fields. The library has more than 740 CDs and DVDs which are issued to various departments of the college. Besides, it also provides the facility of accessing about 30,000 e-journals and research articles provided by the Delhi University Library System (DULS) through the internet to staff members and students. For security purposes, there are 16 CCTV Cameras in the college library. The Library has Braille Materials also for visually impaired users. Furthermore, the library also has one Lez Air Camera Scanner along with a laptop with Lex Air VAD software as well as Braille face and Devnagri Software.

Faculty Strength: 100 (Sanctioned)

Financial Allocation & Utilisation:

Grant Sanctioned : Rs. 25, 13, 75,608.82

Utilized : Rs. 24, 65, 37,069.18

Other Significant Information

Department of Higher Education granted the fund for the **sewage treatment plant** in the college which is now operating in the college. Engineers from PWD Civil and Electrical wing installed much desired **rain water**

harvesting system in the college. Moreover, college garden has now **grill fencing** from the Grant received from Govt. of NCT of Delhi

KIRORI MAL COLLEGE

Major Activities and achievements

The year 2019 – 2020 has been, and continues to be, a challenging one due to the onset and ongoing challenge of Covid – 19. The global pandemic was declared as such at the end of the year 2019 but its impact had become visible somewhat earlier. The activities held have thus been done with great care to the safety of students and staff. The college has special facilities and programmes to sensitize the stakeholders about the disabled students through the Society 'Prayas'. **An Inter-college Sports Day** as well as the annual '**Sakshamta Divas**' was held at KMC on 15 April 2020. The college has adopted 05 villages in the District of Bulandshahr Munni, under **Unnat Bharat Abhiyan**, the flagship programme of the Ministry of Human Resource Development (MHRD). The '**Wellness Centre**' established at KMC has made it possible for a Counsellor to be available for students. This has been extremely useful during the time of the pandemic. Several activities and outreach programmes have been conducted under the aegis of the **DBT Star College Scheme**. A large number of online activities have been going on in college since the imposition of the lockdown due to Covi-19

Honors / Distinctions

Dr. Anita Kamra: "Distinguished Collaborator award", by Department of Pharmaceutics, University of Lancashire, UCLan, Princeton, UK in July 2019.

Dr. Seema Mehra Parihar: IIRS-ISRO 'ANNUAL AWARD 2018' on March 16th ,2019 during IIRS Academia Meet, 2019 (IAM- 2019), Indian Institute of Remote Sensing (IIRS), Indian Space Research Organisation (ISRO).

Dr. Shiv Kumar Kaushik: NCC Achievers Award (Best ANO), organized by the NCC Alumni Club, Delhi, (July 2019)

Dr. Seema Joshi: Selected as a National Expert by Asian Productivity Organisation, Tokyo (Japan) for its on-going project on Education for Future Industry (2019-20).

Students with distinctions

Nikhil Saxema, B.Sc.(Hons.) Mathematics IInd Year secured 1st position (CGPA 10.00).

Aarushi Kapoor, B.Sc. (Hons.) Statistics IIIrd Year secured 1st position (CGPA 9.676)

Publication

Chibh, S., Kour, A., Yadav, N. Kumar, P., Yadav, P., Chauhan, V.,Panda, J. (2020). Redox-Responsive Dipeptide Nanostructures toward Targeted Cancer Therapy. ACS Omega. XXXX. 10.1021/acsomega.9b03547.

Dawra, D., Dimri, M., Singh, A. Jha, A. Singh, S. (2019). Effect of Dense Plasma Environment on the Spectroscopic Properties of He-like Ca18+ Ion. *Journal of Atomic, Molecular, Condensate and Nano Physics*. 6. 10.26713/jamcnp. v6i3.1295.

Gupta, K., Arora, R. (2020). Optimum Cost-Time Trade-Off Pairs in a Fractional Plus Fractional Capacitated Transportation Problem with Restricted Flow. *Investigación Operacional*, 41(1), 27–41.

Halder, D. (2019). Translation Studies: A Handbook (ISBN- 978- 93-88181-14-3). New Delhi: Book Age Publications.

Koranga, B. S. (2019). Neutrino Mass Spectrum for Co-Bimaximal Mixings from Quantum Gravity. *High Energy Physics - Phenomenology*.

Kumar, Sumit & Arti, & Kumar, Parveen & Singh, Nidhi & VERMA, VIVEK. (2019). Steady microwave absorption behavior of two-dimensional metal carbide MXene and Polyaniline composite in X-band. *Journal of Magnetism and Magnetic Materials*. 488. 165364. 10.1016/j.jmmm.2019.165364.

Marisa, F., Sakinah, S., Izzah, Z., Mohammad, T., Purnomowati, W., & Kumar, R. (2019). Performance Comparison of Collaborative-Filtering Approach with Implicit and Explicit Data. *International Journal of Advanced Computer Science and Applications*, 10(10). doi:10.14569/ijacsa.2019.0101016

Poumai, Khole & Kaushik, Shiv & Mantry, Poonam. (2019). Weyl-Heisenberg frames and Balian-Low theorem in $\ell_2(\mathbb{Z})$. *Journal of Mathematical Physics*. 60. 043507. 10.1063/1.5062613.

Prasad, H, Halder, D. (2019). Mass Communication: A Handbook, Second Edition (ISBN- 978-93-935957-5-6). New Delhi: Book Age Publications.

Saxena, R., Saxena, M., Lochab, A. (2020). Recent Progress in Nanomaterials for Adsorptive Removal of Organic Contaminants from Wastewater. *Chemistry Select*. 5(1): 335-353. doi:10.1002/slct.201903542

Journals

Number of the college teachers serving as Editor(s), Member(s) of Editorial Board. One

Research Projects

Ministry of Science & Technology, Department of Biotechnology, 2017-18, entitled, "Small molecule functionalized biopolymeric nanoparticles encapsulating SiRNA and targeted delivery to osteoblasts for managing bone disorders", Dr. Anita Kamra Verma, Amount Rs. 97.86 lakhs.

University Grants Commission (Ministry of Human Resource Development, Govt. of India, 2017-18, ""UGC-UKIERI Thematic Partnership-2017", Dr. Roopinder Oberoi, Amount Rs.35,29,260.

Women Empowerment Atlas of India Science Technology Perspective', SEED Division, Science and Technology, January 2020, "Department of Science and Technology, Ministry of Science & Technology, Government of India, Dr. Seema M. Parihar, Amount Rs 44,33,000/.

ICSSR, 2019, Minor project on Mudra Yojna, Dr Pushpender Kumar, Amount Rs 4,00,000

UGC-UKIERI, 2017-2020, "Multifunctional Nanoparticles for Cancer Therapy", Dr Anita Kamra Verma, Amount 19 lakhs

Seminars Organised

National Seminar on "Protecting and Assessing Innovative Ecosystems" organized by IQAC, KiroriMal College on 06-07 January 2020

Dr. Ritesh Jain, Research Fellow at The Institute of Economics, Academia Sinica, Taipei, "A Systematic Test of the Independence Axiom: Around Certainty", 5 February 2020,

Professor Yioryos Makedonis, Senior Lecturer of Mathematics at Queen Mary University of London and Director of the MSc Banking Programme. La Politique on "Cryptocurrencies and Electronic Payments", 19th February 2020.

Department of Sanskrit organized a Seminar on "Life Management in Shrimad Bhagwad Gita" was held on 26 February 2020. Lectures Delivered by Prof. Mithilesh Kumar Chaturvedi, Ex-Head of Sanskrit Department, Delhi University, and Prof. Pushraj Jain, Ex-Officiating-Principal, PGDAV (Evening) College, followed by interactive session with students.

Conference Organised

National Conference on Emerging Trends and Future Challenges in Chemical Sciences (ETFC-2020) organized by Department of Chemistry under the aegis of DBT Star college scheme on 10 Jan 2020.

Department of chemistry organized 2nd National Conference on **Emerging Trends and Future Challenges in**

Chemical Sciences (ETFC-2020) at the Conference Centre, University of Delhi on 10-11 January 2020.

Seminars / Conferences / Presentations

Dr. Raj Kumar presented a paper entitled, "Image Processing using Multiresolution Wavelet Decomposition in weighted Sobolev space" An International conference on "Managing ICT for GNH based Development" organized by Gyalpozhing college of Information Technology, Royal University of Bhutan, during 7-8, March 2019

Dr. Rakesh Kumar Pandey presented a paper in conference CEST-2019 (Central European Symposium on Thermophysics 2019) Slovakia, 16-18 October 2019.

Dr Seema Mehra Parihar presented following two papers at Asia GIS & International Cartographic Conference (15 - 20 July, 2019), Tokyo, Japan.

'Story of Creating Gender Atlas of India: Some Insights of a Principal Investigator'; and

'Mapping Geospatial Dimensions of Water in Jammu and Kashmir to pursue Wider Peace'

Dr. Siddhartha Lahon delivered an Invited talk, "*Perturbations of Frames in Quaternionic Hilbert Spaces*" at the 8th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2019) held at Baku, Azerbaijan from 27-30 August 2019.

Dr Sanjay Verma was Invited as a Moderator-cum-Discussant for a session titled 'Synthesizing of the Insights and Compiling of reports to prepare a Guideline or Reference Manual for Teachers of English' in a Three Day International Seminar and Workshop on "Innovative Teaching, Learning and Evaluation in English: Harmonious Transition from School to University" on 25th January 2020 organised by Lakshmi Bai College, University of Delhi and Trinity College London from 23 to 25 January 2020.

Dr. Md. Mohsin presented a paper on " Kalame Iqbal mein Iblees ke Kirdar ki Manviyat' in Two Day International Seminar organized by Department of Oriental Language and Literature, Faculty of Arts, Cairo University, Egypt on 17-18 February 2010.

National / International MoUs Signed

Nodal Officer, Science Setu: MoU with THSTI under DBT

Animal House: MoU for disposing Biological Waste

Paper Recycling: MoU for recycling waste paper

The National Institute for Entrepreneurship and Small Business Development, Noida

The Construction Industry Development Council, New Delhi

Management & Entrepreneurship and Professional Skill Council, New Delhi

National Small Industry Council, New Delhi

VYOMINI Social Enterprise, Delhi

IGDTUW - Anveshan Foundation (Business Incubation Centre) Indira Gandhi Delhi Technical University for Women, Kashmere Gate, Delhi – 110006

National Productivity Council, New Delhi

Chinese Culture University, Taipei, Taiwan

Global Rainbow Foundation, Mauritius

Placement Details

Number and percentage of students placed: 98 students (32.67%)

Number of companies visited for campus recruitment: 90 companies

Extension and Outreach activities

The college is participating in Unnat Bharat Abhiyan and adopted 5 villages for their development in collaboration with district administration. Faculty and students to be involved in village development plan in collaboration with district administration. Under this programme Medical camp was organized on January 23, 2020 in association with Chhatrapati Shivaji Subharati Hospital, Meerut and Kailash Hospital Khurja. NSS-KMC Unit is working under two broad wings: **Sahyog**- “Child Empowerment Wing” “Each One Teach One Programme” And **Sahas**- “Women Empowerment Wing”. **SAHYOG: Also known as EACH ONE TEACH ONE** programme, where the children of the adopted village of Chandrawal lane no 3,4,5 & 6, Gurmandi, Vijaynagar and other surrounding areas come to college premises every day from 3-5pm. The aim of the programme is to provide academic support / free tuitions, recreational innovative activities, cultural activities and personality development activities, celebrations of national days and festivals for adopted village kids in college premises. **SAHAS** not only works on women empowerment, it also spreads awareness about the pressing contemporary issues regarding the same through different events, interactive sessions, workshops as well as various drives. In 2019-2020, Unit also joined hands with EKAL VIDYALAYA through which our selected volunteers conduct ‘Helping Hand Camp’ in the villages under Ekal Vidyalaya as a regular feature.

Library Development

Summary of Expenditure ₹1,63,584.95/-

I-Card ₹2,99,248/-

Total Budget ₹15,20,000/-

Number of Books added 1690

Total Books 1,52,639/-

Total Book Bank Collection 5963

Total: **53** Angels, **81** notebook for visually handicapped.

Faculty Strength

Permanent: 134

Adhoc: 67

Financial Allocation and Utilization

Grant sanctioned Rs.873677085.32

Utilized Rs.738838499/

LADY IRWIN COLLEGE

Major Activities and Achievements

Lady Irwin College was shortlisted for “The 10 Best Agriculture Institute in India, 2018” by The Knowledge Review- a global education magazine. Significant achievements include Memorandum of Understanding (MoU) for partnership between Ministry of Rural Development (MoRD), Goa and Lady Irwin College, University of Delhi to implement activities of FNH&W under DAY-NRLM and convergence action under POSHAN Abhiyaan, 16th Oct 2018 and Memorandum of Understanding (MoU) between the College and International Institute of Population Studies, 25th October, 2018. Other activities include National Level Training of Master Trainers for implementation of MNP (facility and community level) at National Institute of Nutrition (NIN), Telangana, Ramgarh, Ranchi, Jharkhand and Patna Medical College and Hospital; Design, test and deliver trainings on Nutrition Epidemiology and other courses - First module of Nutrition Epidemiology course on “Survey methods” and second module on ‘Data Management Tools and Advanced Statistics’ Department of Food Technology received financial support for strengthening life science and biotechnology education and training at Undergraduate level under Star College Scheme from Department of Biotechnology, Ministry of Science and Technology, GoI.

Honours/ Awards/ Distinction

Anupa Sahi Siddhu Gold Medal for excellence in doctoral work in Lady Irwin College (2019) to Nidhi Gupta.

Dr. Bhanumathi Sharma and Dr. Vinita Bhargava received award for excellence in developing National Guidelines for setting up and running crèches under the Maternity Benefit Act conferred by the Deendayal Upadhyaya Smriti Manch, 2019.

Dr. Simmi Bhagat received third prize in poster presentation for paper on Journey of Camel Hair: Specialty Hair Fiber from Futile to Richness Young Research Symposium 2019.

Ms. Madhuri Nigam received First prize in poster presentation, “Assessment of Climate Change Impact of Wool Yarn”. What’s Next 2019- The Creative Sparks Competition, by Pearl Academy, Mumbai, India, 22nd-23rd February, 2019

Vibha Gupta, PhD student (Dr. Anupa Siddhu and Dr. Sarita Anand) WARC Awards (Asia Pacific), 2019: Silver in the category Effective use of brand purpose for brand Harpic, case study titled: Harpic – India’s newest matchmaker.

Awarded best oral presentation Chauhan, U., Tomar, D. & Upadhyay, R. (2019). Problems of marginal and small women farmers: A study in Tehri district, Uttarakhand. International Seminar on Socio- Cultural Study of Agriculture, Mata Sundari College, University of Delhi, March, 15- 16.

Awarded with Prof. Indira Parikh 50 Women in Education Leaders Award by World Education Congress, 5th July, 2018 to Dr. Aparna Khanna.

Students with Distinction

Atulya Chadha of B.Ed. (Home Science) was awarded with Sumitra Gurudutt Gold Medal for securing 1st Position.

Anubhuti of B.Ed.Spl.Ed.(MR) was awarded with Suraj and Santosh Bhasin Gold Medal for securing First Position.

Gunjan Kharbanda of M.Sc. Food & Nutrition II was awarded with B. Tara Bai award for securing 1st position.

Yashika Goyal of M.Sc. Human Development and Childhood Studies II year was awarded with Child Development Alumnae Award for securing 1st Position.

Samridhi Manral of B.Sc. Home Science (H), Food and Nutrition received Smt. Leela Malhotra Gold Medal for securing 1st Position.

Publications

Arora, B., Siddhu, A., Peters A.N.C. (2019). Factors/Mechanisms Affecting Status of Iron & Related Nutrients in RYGB Patients. *International Journal of Scientific Research and Reviews*. ISSN: 2279–0544

Dholakia, P., Siddhu, A., Singh, R. (2019). Total phenolic and flavonoid content and antioxidant activity of amaranth based cookies. *Journal of Emerging Technologies and Innovative Research*. ISSN: 23495162

Shukla, P., Siddhu, A., Peters, A.N.C. (2019). Lifestyle Management for Type 2 Diabetes: Barriers and Facilitators. *International Journal of Scientific Research and Reviews*. ISSN: 2279– 0543.

Mediratta S, Mathur P. (2019). Does measuring diet quality help in predicting health outcomes? *Int J Health Sci Res*. 9(6):378-384.

Rastogi, S., Khanna, A., Mathur, P. (2019). Educational interventions to improve menstrual health: approaches and challenges. *International Journal of Adolescent Medicine and Health*. 20190024 ISSN (Online) 2191-0278, DOI: <https://doi.org/10.1515/ijamh-2019-0024>.

Satyapriya, Singh., P, V. Sangeetha., Paul, S., Barua, S., Mathur, P., Rathore, H. & Keshava. (2019). Consumer behavioural intention and perception towards organic foods in national capital of India. *Indian Journal of Agricultural Sciences*. 89(4): 588-595. ISSN 0019-5022.

Sharma, P., Kehinde, B. A., Kaur, S., Vyas, P. (2019). Application of edible coatings on fresh and minimally processed fruits: a review. *Nutrition & Food Science*. 49 (4): 713-738. ISSN: 0034- 6659.

Singh, P. (2019). Fungicidal Activity of alpha-Melanocyte stimulating hormone in specific solvent augmented at explicit pH against *Candida albicans*. *Journal of Microbiology and Antimicrobial Agents*. 5 (1): 21-29, ISSN 2396-880X.

Bhatia, A., Joshi, P. (2019). Role of parents in the use of technology in middle childhood. *International Journal of Academic Research and Development*, 4(2): 126-129. ISSN: 2455-4197

Malik, G., Sethi, S. (2019). Pictorial Folklores of Gond Paintings: Symbolism of an Ancient Culture”. *International Journal of Family and Home Science*. 15 (1): 131- 136.

Webinars/Workshops/Conferences/Training/Special Lectures

13 day self-defense training course for “Safety of Women and Children” was organized by the Delhi Police in collaboration with the Department of Education, Lady Irwin College from 23 July to 9 August 2019.

Workshop on “Indian Sign Language” in collaboration with Indian Sign Language Research and Training Centre (ISLRTC) was organized on 25 September 2019 and 27 September 2019 to celebrate the International week of the Deaf.

Two days National Conference on Learning (NCL, 2019) Theme: “Teachers: Effecting Change for a Sustainable Future” was organized on 6 - 7 Dec 2019.

A workshop on “Thrust Areas in Research’ was organized to help the Post graduate students to identify the topics for M.Sc. Dissertation with experts in fields of Public Health Nutrition, Clinical Nutrition and Food Science on 7 August 2019.

A seminar on Celiac Disease was organized along with Celiac Support Organisation on Wednesday, 4th September, 2019 to increase awareness on Celiac disease amongst nutritionists, dieticians and students of the subject.

Dr. TSR Murali, Founder Urja Consultants, Gurgoan,” Career Prospects in Food Technology: Role of budding Food technologists’, 9September, 2019.

An international Seminar on “Scope of Public Health Nutrition: A global perspective” was held in collaboration with Syracuse University, New York on 3 January 2020.

A Nutrition Awareness Activity was conducted with a seminar “Food Systems & Dietary Diversity-Facing the Challenges of 21st Century” on 28February, 2020.

RMDA Department in collaboration with Michigan State University, USA convened the 13th Annual Symposium on harnessing green energy for the future on 25 February 2020 in New Delhi with funding support from Indian oil corporation limited, India.

National/International MoUs Signed

With Indian/Foreign Companies/Industry

MOU signed with Syracuse University, New York State, USA.

MoU with Humboldt University and Port Land University (Department of DCE)

Rural Youth Volunteers in India: HSU-LIC Twinning Programme, supported by US Embassy in India: The programme conceived in 2017 and executed in 2018, paired 8 students from Humboldt State University in Arcata, California (U.S.), with 8 students from Lady Irwin College, New Delhi (India) to work in two rural communities in the Baghpat district of Uttar Pradesh in northern India.

Library

During the year, a total of 554 (245 purchased books, 64 bound volumes, 143 donated books and 102 dissertations) documents were added to the existing collection. A total of 91 periodicals (85 journals) were subscribed.

Other Significant Information

Number of M.Phil/ PhDs awarded: 13

Ongoing MOU with Michigan State University- It is student exchange for semester abroad programme. One of the oldest exchange programmes going on in the Department of Development Communication & Extension,

Lady Irwin College, *Summer Twinning Programme with Michigan State University, USA* (student exchange programme) was initiated almost two decades ago and ever since it's inception over 128 students and 12 faculty members have crossed borders under this programme. Since a couple of years, the programme has adopted a Twinning approach, wherein students from MSU are placed with PG students of the Department under a project and share and learn together. Last year also, four students from MSU from diverse areas of specialization came in the summer and were placed with 2 Indian students from M.Sc DCE (Final) programme under the "Ganga Project".

LADY SHRI RAM COLLEGE FOR WOMEN

Major Activities and Achievements

In 2019, LSR bagged the second place in the NIRF survey with a score of 72.08 out of 100. LSR was selected by MHRD's Innovation Cell (MIC) for the constitution of Innovation Council in the college to promote innovation among its students. The Council has been actively taking various steps to promote innovation and entrepreneurship endeavours among students by hosting a multitude of talks, competitions and workshops. A mental health phone app titled 'Mann'zar: Body Positivity, has been developed under LSR's Innovation Cell. The app is specially geared towards Indian youth of all genders. It can also be used with ease in both Hindi and English. A full day workshop was organized by IQAC-LSR on 31 August 2019 for the faculty of the college on the 'Role of ICT in Teaching and Research.' Many events were conducted during the year to enhance the physical well-being of the LSR community. The College continued its engagement with several social and community-based initiatives. One example of this is the organization of Kala 2019 celebrated on 6 September 2019. The event was dedicated to *Mahatma Gandhi's 150th birth anniversary*. The department of Psychology conducted an **Online Short-term Certificate Course titled 'COVID-19: The Psychology of Human Behaviour'** with 35 students from different departments of LSR. Several interactions were organised with former students of the college. Several collaborations took place between LSR and other educational institutions. A host of workshops was conducted for students to build their capacities in academic and non-academic areas. The college organised a large number of talks and events on women empowerment and gender related issues. Workshops on self enhancement were conducted for the college non-teaching staff across three days of June 2019.

Honours/Distinctions

Ms. Wafa Hamid received US Almuni Micro Grants Award (Within India, by International Embassy and Programmes) by US Embassy and Swechha in 2020.

Ms. Wafa Hamid received Fund for Lesbian and Gay Studies (FLAGS) Award (International) by Yale University in 2019.

Ms. Wafa Hamid received Madonna and Michael Marsden International Grants Award by the Popular Culture/ American Culture Association (International) in 2019.

Dr.Sarika Kalra received Shtabdi Samman (Yuwa) from Bihar Hindi Sahitya Sammelan, Patna, Biharin Aug 2019.

Dr.Sarika Kalra received Raja Radhika Raman Singh Puraskar, Aryavrat Sahitya Sanskrit Sansthan, New Delhi , Nov 2019.

Dr. Pankaj Jha received a short Post-Doctoral Fellowship for One Month at ZMO, Berlin from 19 June to 19 July 2019.

Dr. Shwetanshu Bhushan received Nehru Memorial Museum & Library (NMML) Fellowship, Teen Murti Bhawan,

Ministry of Culture, Government of India, New Delhi from 2018 – 2020.

Dr. Sonali Mishra received Foreign Travel Grant from Indian Council for Historical Research (ICHR) - for July 2019.

Students with Distinctions

Manu Bhaker of Political Science Hons I year won Gold in all 4 world cups and 4-5 in all individual categories in the All India Inter University Air pistol shooting in December 2019 held at Manav Rachna,Haryana.

Yashita Dhawan of B. Com Hons II year achieved 1st position in Inter University held from 5Nov-9Nov 2019 at Chandigarh

Tavleen Kaur Bhandal of Psychology Hons Iyear achieved Bronze medal in 3x3 Senior National Basketball held at Bangalore from 22 August to 24August 2019.

Niharika Rana of Journalism Hons III year achieved 2ndposition in Inter University held from24 Dec 2018 to 4 Jan 2019 at Punjab.

Megha Bali of English Hons I year won one gold and one silver medal at All India University held at LPU, Jalandhar from6 November 2019 to 8 November 2019& two silver medals at Khelo India University Games held at Bhubaneshwar from 23 February 2020 to 26 February 2020.

Publications Total Number

Arora, T., Kumar, A., & Agarwal, B. (2020).Impact of Social Media Advertising on Millennials buying behavior.International Journal of intelligent Enterprise, 7(4), 481-500.

Darbari, J., Kannan, D., Agarwal, V., & Jha, P. C. (2019).Fuzzy criteria programming approachfor optimising theTBL performance of closed loop supply chain network design problem.Annalsof Operations Research, 273(1-2),693-738

Govindan, K., Jha, P. C., Agarwal, V., &Darbari, J. D. (2019). Environmental management partner selection for reverse supply chain collaboration: A sustainable approach. Journal of Environmental Management, 236, 784-797.

Jain, P., Kumari, S., &Singh, M. (2019).Mixed Norm Inequalities for Lebesgue Spaces.Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, 1-5.

Jain, P., Singh, M., Singh, A. P., & Stepanov, V. D. (2020).On the Duality of Grand Bochner–Lebesgue Spaces.Mathematical Notes, 107(2), 247-256.

Kumar, A. &Kaur, B. (2019). An improvement of third order WENO scheme for convergence rate at critical points with new non-linear weights. Differential Equations and Dynamical Systems,28(3),539–557.

Nayak, S.& Khan, A. (2020). Variable mesh polynomial spline discretization for solving higher order nonlinear singular boundary value problems. Differential Equations and Dynamical Systems,28, 617–631.

Minocha, A. (2020). Bhai Vir Singh and the public sphere in colonial Punjab.Sikh Formations:Religion,Culture, Theory, 16 (1-2), 14-27.

Pande, V. (2020). Book Review: Nachiket chanchani, mountain temples and temple mountains:Architecture, religion,and nature in the central Himalayas, Seattle: University of WashingtonPress. Indian Economic and Social History Review, 57(3), 421-437.

Yadavalli, V. S., Darbari, J. D., Bhayana, N., Jha, P. C., & Agarwal, V. (2019).An integratedoptimization model

Forselection of sustainable suppliers based on customers' expectations.Operations Research Perspectives, 100113, 1-16.

Journals -Published by the College

B.A Prog	Montage
History	Ijtihad
Commerce	Comcorde
Economics	Ecolloquial
Journalism	Countertalk
English	Jabberwock
Maths	Eclat
Philosophy	Noesis
Political Science	Sabab
Psychology	Learning Curve
Sociology	Jharokha
Sanskrit	Tejas
Hindi	Durvaa
Statistics	Sankhyiki

Research Projects

Ministry of Minority Affairs Project - Jiyo Parsi Phase - 2, 2019-20 Health of the Community Project,Dr. Shernaz Cama, Department of English

International Research Project – Major, Cultural Heritage, 2019- 2021, Migration and the Indian Diaspora: Weddings and Marriage amongst Tamil and Parsi women in diasporas in India and the UK, Dr. Shernaz Cama, Department of English

Major project- funded by ICSSR, New Delhi, the Study of Corporate Social Responsibility (CSR) practices of select Companies in India with Special Reference to North Eastern Region, Dr. Arvind Kumar, Department of Commerce.

ICSSR (IMPRESS Scheme), “Study of the condition of women inmates and their children in Indian Prisons and their communication needs with special reference to Uttar Pradesh”, Dr. Vartika Nanda

UNICEF and Center for Appearance Research, University of West England, UK, ‘The development and evaluation of a comic book based-programme to improve body image among adolescents in rural India’, Dr. Megha Dhillon, Department of Psychology

Seminars Organized

National Webinar on Financial Mathematics: Pedagogy and Career Perspectives – 27 July 2020 to 31 July 2020 was organized by Department of Mathematics.

Lecture by Dr. Gopa Sabharwal on ‘Gandhi Then and Now’ on 24 September 2019.

Behind the screen warriors: Indian scientists and the COVID 19 pandemic -Webinar by Department of Elementary Education and IQAC on 23 May 2020.

Economics Department organised talk by Prof. Gita Gopinath, Chief Economist of the International Monetary Fund.

Conferences Organized

LSRMUN 2020 Conference was organized on 14 to 15 February 2020, ‘Back to the Future’.

The Commerce Department organized its Annual Academic Meet on 26 to 27 September 2019.

The Journalism Department hosted its Annual Academic Meet—Juxtapose, on 21 to 22 February 2019.

Annual Inter – College Academic Meet ENIGMA 2020

Seminar/Conference Presentations

Dr. Kalyani was a speaker in a Panel Discussion on Women in Science organized by Aditi Mahavidyalaya, University of Delhi.

Dr. Kalyani was a speaker in a National webinar organised by OUP(Oxford University Press) for teachers and teacher educators in June 2020 on ‘Covid 19 Pandemic as a socio scientific Issue and Role of Teachers’.

Dr. Kalyani was a resource person in a webinar organised by Lady Irwin College, University of Delhi, on ‘Role of Science Teachers in Covid 19 Pandemic as a socio Scientific Issue’.

Dr. Kalyani was a resource person in a 3-day Workshop on Studying and Strengthening Science Laboratory in B.Ed. Programme held at JMI from 29-31 January 2020.

Dr. Jonaki Ghosh was a speaker in the International conference - Asian Technology Conference in Mathematics (ATCM) held at Leshan, China from 15 - 19 December 2019.

Dr. Jonaki Ghosh was a speaker at the National conference on Technology and Innovations in Mathematics Education (TIME) held from 26- 29 December 2019 at IISER, Pune.

Ms Shruti Chopra was a resource person in a 3-day Workshop on Studying and Strengthening Science Laboratory in B.Ed. Programme held at JMI from 29-31 January 2020.

Ms Shruti Chopra was a resource person in Focus group Discussion on Exploring Teacher Educators' Usage of Laboratory in Science Teacher Preparation held at JMI in December 2019

Dr Maya Joshi was a resource person at the Faculty Development Programme of the Hemvati Nandan Bahuguna University, Srinagar, Tehri Garhwal from 10-11 June 2019.

Dr Shernaz Cama was a key-note speaker on *Celebration of Iran: Land of Culture, Beauty & Charm* organized by the Embassy of the IR of Iran with Iran Culture House, Noor International, PHD House, Delhi on 14 November 2019.

National/International MoUs Signed

Ongoing MoU with Ersnt and Young wherein they offer Rs One Lakh scholarship for students.

Renewal of MoU for the student exchange programme between the National University of Singapore and LSR College.

Students under Exchange Programme

Simran Rawat, a final year Journalism student, was chosen as part of a 25 member Indian Youth Delegation to South Korea from 13 to 22 November 2019, under the International Youth Exchange Programme of the Ministry of Youth Affairs and Sports, Government of India.

Pravina Khurajia, a first year student of the B.A. Programme Department, was selected as one of 10 Cargill Global Scholars 2020 from across the country.

Juliet Flan Ross and Rebecca Brown who had been Exchange students from Middlebury at LSR in 2017, were awarded the Fulbright Research Award for India in 2019-20.

LSR College hosted a number of exchange students in the academic year 2019-20 from institutions such as Middlebury College, USA and LaTrobe University, Australia. These students had to leave India as they were re-called by their home institution due to the pandemic. However, they continued online academic work and finished their course-work by 30 April 2020.

A number of students from LSR were nominated for collaborative programmes in Universities abroad such as Fukuoka Women's University, Japan, Sciences Po, Paris France, National University of Singapore, Singapore and Macquarie University, Australia

Placement Details

A large number of companies were hosted for placements as well as internships (100 and 302 respectively). Approximately 110 students received placement offers. The average package offered this year was 9.4 LPA. The highest package offered was 30 LPA. The average internship stipend offered was INR 16,000 while the highest stipend offered was INR 2,25,000 (for 5 weeks).

Extension and Outreach Activities

To help students assume leadership of movements of social transformation, the College in addition to NSS and NCC, has initiated four Innovative Programmes – the Voluntary Agency Placement Programme which provides opportunities for students to make a positive contribution to community development and social welfare, Dhyana the Society for Consciousness and Awareness which encourages experiential learning, the Women’s Development Cell which engages with women’s issues and REACH which is an acronym for Reaffirming Equity, Access, Capacity and Humanism and deals with issues of affirmative and inclusive learning. NSS organized a large number of extension activities and events relating to Institutional Social Responsibility throughout the year. Many of these activities took place online after the pandemic related lockdown. Some highlights of the year were- **Swachta Pakhwara, LSR Chapter:** LSR NSS organized a Swachhta Pakhwara oath on 31 July 2019 with the objective of bringing intense focus on the issues and practices of Swachhata. The oath took place in the amphitheatre with NSS project heads and teachers. The NSS staff advisor addressed the volunteers present and highlighted the importance of realising Mahatma Gandhi’s dream for a clean and beautiful India. Everyone then pledged to contributing 100 hours a year to reducing waste by giving the mission 2 hours a week. **NOOR:** On 19 October 2019, NSS-LSR organised its Diwali Mela ‘Noor’ dedicated to the 150th birth anniversary of Mahatma Gandhi. The cultural programme of Noor 2019 entailed singing and dance performances by LSR students as well as children from NSS associated NGOs. The Dramatics Society of LSR performed a short play for the children, about hope and joy in life. Lastly The FLASH MOB, choreographed and performed by LSR students won appreciation from all present at the event. **Mask Making Workshop:** on 19 April 2020, Project Muskaan of NSS-LSR held an online session on "Make Masks at Home", encouraging participants to make simple masks at home and give them to the needy to help fight COVID-19. In the 30 minutes long session, attendees learned how to make a mask with basic stitching and sewing. Lastly they were asked to post their selfies wearing their masks on social media so as to encourage their peers to do the same. **Donation Drive:** Aghaaz project members conducted an online donation drive from 9 to 13 April 2020 to support its user group in Khoregaon, Faridabad. The donation drive was a huge success with an overwhelming response from the volunteers of the project. There were around 15 donors who contributed Rs 12,000. This drive impacted the lives of 6 families. The project further sensitized people about the crisis and the do’s and don’ts of maintaining safety during the Pandemic times. NCC-LSR is an organisation which teaches students unity and discipline and provide defence training. NCC LSR successfully organised its 2nd edition of Intra College Drill Competition (ICDC). Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year. Beyond the classrooms, the SC-ST Cell and REACH have remained active in their efforts to raise social awareness around societal divides. *Swavalamban* is a resource centre in college for differently-abled students, particularly for those with visual disabilities. It provides access to assistive technology and equipment including the Everest–D Braille Embosser, Screen Reading Software, Lex-Talk Scanner, Book Scanners, DAISY Recorders and Players and OCR software for English and Hindi. The resource centre also has computer systems that facilitate the work of both English and Hindi discipline students. REACH works with the Equal Opportunity Cell of the University of Delhi, to ensure that students have access to reading material, laptops and other recording devices provided by the University. The focus of REACH was on greater infrastructural accessibility coupled with awareness raising and sensitization in order to create and sustain an inclusive learning environment for students with disabilities. This was also coupled with an attempt to amplify the voices and experiences of students with disabilities in college through various informal events, online campaigns and their newsletter. WDC organised several events including panel discussions, movie screenings and informal discussions in which it was attempted to explore the intersections of gender with various other social identities, including ethnicity, sexuality, etc. The WDC initiated the academic year with their first event on “Feminist Art on new age media” by Isha Yadav. It was centred around the speaker’s research on Feminist Art by South Asian Women on Instagram. The talk attempted to address several issues like arranged marriage and caste and religious atrocities that

South Asian women face. The Voluntary Agency Placement Programme (VAPP) at LSR provides a space for students to engage with environmental and socio-economic issues, to volunteer with NGOs working at the grassroots level and to actively participate in community development projects. Keeping these objectives in mind VAPP organized a series of events throughout the academic year. In collaboration with Uday Foundation, VAPP launched a Collection Drive for the poor and underprivileged patients at AIIMS, Delhi from 3 September 2019 to 7 September 2019. On 13 September 2019 Organ India was invited to hold a session on Organ Donation. VAPP collaborated with WUS to organize a breast cancer awareness session on 23 October 2019 in collaboration with Pinkishe Organisation. Along with conducting formal sessions, VAPP also organized several informal team-building sessions which helped members work more effectively together. Along with conducting formal sessions, VAPP also organized several informal team-building sessions which helped members work more effectively together. As in earlier years, VAPP brought out its magazine PULSE and newsletter INSIGHT. Furthermore, through VAPP, students were provided opportunities for about 150 internships in the voluntary sector.

Library Development

Library is fully automated. All services like Acquisition, Periodicals, Reference Service, Circulation Service, OPAC are provided through computer. Flooring of the Complete Library which includes Main and Reference has been renovated with Kota stone. Library has scanned and uploaded the previous Question papers and entire syllabus on the website of the college. Shelving of the whole library stack has been improved. Library started the reference division for providing quick services to the Faculty and Students. Upgraded the database of periodical articles. Meeting the needs of students and faculty the working hours of the Library has increased the circulation timings. The user id and password of the INFLIBNET (NLIST services) has been provided to the Faculty members and students of all the departments. Photocopy services provided by the library via outsourced photocopier. LSR Library has become member of the DELNET which provided user id and password to access its services. Library regularly served the current awareness services like Article alerts, List of additions, News alerts. To raise the awareness or e-resources Library conducts the orientation program for faculty and the students departmentally. Online training for retrieval and access of various documents from different databases was given in small groups to the Faculty and students. Displayed the recently arrived books as part of current awareness services.

Faculty Strength

Assistant Professor	50
Associate Professor	35
Professor	1

Financial Allocation and Utilization

Grant sanctioned: Rs, 41,91,32,655

Utilized: Rs. 44,85,14, 921

LAKSHMIBAI COLLEGE

Major Activities and Achievements:

This year the college has worked concertedly towards enhancement of its infrastructural capacity by building new Reading Room and Seminar Room on 2nd floor of the library, New Admin Office, construction of space in front of library for multiple usage, renovation of Lecture Theatres, development of canteen infrastructure (Separate space for faculty, New furniture for students and faculty) and multipurpose hall "Gargi Sabha". With good infrastructure comes the new zenith to do well for the betterment of college. "Gargi Sabha" hosted five seminars on various themes and college had plethora of scholars along with honorable speakers enlightening our students and faculty. Furthermore, college boosts about manufacturing sanitary napkins within college premises, visiting Wazirpur village on Sundays and provide free education to small children, opening of 'Creche' within the premises for staff members, establishment of Solid Waste Recycle Unit and Charak Vatika Besides the pride of Lakshmibai are our students who excel across different fields.

Honours/Distinctions

Dr. Pratyush Vatsala (Principal) - Literary Excellence Award received on 23 February 2020 (12th Asiad Literature Festival)

Dr. Pratyush Vatsala (Principal) - Invited to deliver Expert Lecture at Maharaja Agrasen Technical Education University on National Youth Day 14 January 2020

Dr Lata Sharma - Awarded Meritorious College Lecturer Award, Directorate of Higher Education, Govt. of NCT Delhi, March 2020.

Dr. Anita Malhotra - Nominated Expert member on FSSAI Scientific panel on Cereals, Pulses, Legumes and their products (including bakery), 2020-present

Dr. Anita Malhotra - Nominated Expert member on FSSAI Scientific panel on Spices and Culinary Herbs, 2020-present

Dr. Anita Malhotra - Elected as Vice President AFST (I) Delhi chapter (2019-22).

Students with Distinctions:

Parvi Jain has been awarded Karmaveer Chakra 2019

Baseball Players Siji, Neha Gupta, Monica (ex-student) went to China for Asian Baseball Tournament

Meenakshi (Gymnast) secured 3rd position in 11th Acrobatic Gymnastics Asian Championship held at Tashkent, Uzbekistan

Three Baseball players got selected for the Indian Coaching Camp

Namra, a student of 2nd yr BA P and a member of NutriBite from our college has bagged the First prize at University Chef Competition 2020 edition V hosted by Shyam Lal College, University of Delhi

Lakshmibai College won Inter College Weightlifting championship defeating JMC with Four Gold, Two Silver and Three Bronze medals

Lakshmibai College won Inter College Kabaddi Championship by defeating Daulat Ram College in the finals

LBC volleyball team secured 1st position in DELHI YOUTH STATE CHAMPIONSHIP.

KM Pooja of Sanskrit Hons secured first position with 9.45 CGPA

Priya of BCom Hons secured first position with 9.378 CGPA

Garima Chugh of BCom Hons secured second position with 9.311 CGPA

Richa of BCom Hons secured third position with 9.23 CGPA

Shreya Jain of Eco Hons secured first position with 9.23 CGPA

Overall, a total of 113 Medals i.e. 45 Gold, 24 Silver and 44 Bronze Medals at individual level at various levels of competitions including International, National, All India Inter University, Inter College and State Tournaments during the session 2019-20 apart from the Team championships in Inter college and State tournaments have been won by students.

Publications Total Number

Gaub, D. S. (2019). *Entrepreneurship* (Second ed.). Delhi: Galgotia Publishing Company.

Malhotra, D. A. (2019). Lifestyle Intervention Framework for Obese Patients with Non-alcoholic Fatty Liver Disease – a Tool for Health Professionals in Resource Constraint Settings. *Cureus* , 10. doi:doi:10.7759/cureus.5999

Malhotra, D. A. (2019). Weight management module for perimenopausal women: A practical guide for gynecologists . *J Mid-life Health*, 10, 165-72.

Porchelvi, A. (2019, October). Environmental Reporting Practices: An Analysis of Indian Companies. *EPR International Journal of Economic and Business Review*, 7(10), 83-93.

Sharma (Kaushik), S., & Shaw, D. (2019). Length Dimension Correlates of Longitudinal Physical Conditioning on Indian Male Youth. *International Scholarly and Scientific Research and Innovation-International Journal of Sport and Health Sciences. Open Science Index, World Academy of Science, Engineering and Technology*, 13(11), 461-464. Retrieved from <http://publications.waset.org/10010898/pdf>

Sharma (Kaushik), S., & Shaw, D. (2020). Variability of Co-variance of Selected Skeletal Diameters of Female in a Longitudinal Physical Training Programme". *International Scholarly and Scientific Research and Innovation-International Journal of Sport and Health Sciences. Open Science Index, World Academy of Science, Engineering and Technology*, 14(1), 7-11. Retrieved from <https://publications.waset.org/10010898/pdf>

Shilpi, A. (2019, July-September). The Question of Accession of Jammu and Kashmir: An Analysis. *SHODH SARITA*, 6(23).

Vatsala, D. P. (2020). *Innovative Teaching, Learning and Evaluation in English: Harmonious transition from School to University*. New Delhi: Gyan Publications.

Vatsala, D. P., & Chaturvedi, D. S. (2020). *Speaking Silence: History, Politics and Psychology*. New Delhi: Gyan Publications.

Zafir, D. (2020). Translation as 'Re-Presentation': The Disability Spectrum in Selected Urdu Short Stories . In G. Prasad, & S. (. Sati, *Disability in Translation: The Indian Experience* (pp. 97-107). Routledge, South Asia edition.

Research Projects

Dr. Anita Malhotra, ICMR funded Project- Co-investigator with Dr Govind Makharia (Professor, AllMS) of a Research Project 'Estimation of Gluten Content in Unlabeled and Labeled Glutenfree Food Products and Commonly Used Food Items Used by Celiac Disease Patients' funded by Indian Council of Medical Research (ICMR) (2018-20; > 20Lakh)

Patents Filed/Granted NIL

Seminars Organized

Prof. Udaya Kumar, Department of English JNU, "Narratives, Thoughts and Emotions", 27 September 2019.

Dr. Ira Raja, Prof. Department of English DU, "Life as Text: Narratives of Age in Indian Fiction", 27 September 2019.

Prof Sangeeta Magan, NDIM, Delhi , "Time Management", 17 January 2020

Prof. Shobha Bagai, Professor, Cluster Innovation Center, D.U, 'From tricks to techniques in Mathematics', 15 November 2019

Shree Ashutosh Bhatnagar, Director of Jammu and Kashmir Study Centre, Talk on Article 370, 23 August 2019.

Conferences Organized

"Media and Democracy", 18-19 September 2019, UGC sponsored National Seminar

"Speaking Silence: History, Politics and Psychology", 23 and 24 October 2019, UGC sponsored National Seminar.

"Ikkasanvi Sadi Mein Gandhi Chintan ki Prasangikata", 17-18 January 2020, UGC Sponsored National Seminar.

"Innovative Teaching, Learning and Evaluation in English: Harmonious Transition from School to University", 23 to 25 January 2020, UGC Sponsored International Seminar and Workshop

"Paradigm Shift in Higher Education", 16-21 April 2019, Seven Days Faculty Development Programme organized by IQAC, Lakshmbai College, University of Delhi.

Seminar/Conference Presentations:

NATIONAL

Dr. Anita Malhotra co-presented a paper 'Challenges in the dietary and lifestyle management of non alcoholic fatty liver disease – a dietitian's perspective' at UGC sponsored national conference on Food Safety, Nutritional Security and Sustainability, 6 - 7 March 2020.

Dr. Anita Malhotra co-presented a paper 'Barriers and facilitators to antiretroviral therapy (ART) acceptance and adherence in children living with HIV/AIDS' at UGC sponsored national conference on Food Safety, Nutritional Security and Sustainability 2020.

Dr. Anita Malhotra co-presented a paper 'Gluten-free food vs their gluten containing counterparts – Economic burden in India' at UGC sponsored national conference on Food Safety, Nutritional Security and Sustainability, 6- 7 March 2020.

Dr. Anita Sharma presented research paper presented, titled "Vaidic sanskriti sanrakshne sanskrit vidusheenaam bhumika " in Shree Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeeth, 19 May 2019, jointly organised by S.L.B.S.R.S.V and Sanskrit Bharti, Delhi.

Dr. Anita Sharma presented research paper presented, titled "Sanskrit evam Himachal Pradesh ki Kangri evam Kinnauri bhashaon ka antarsambandh" in three days national seminar organised by Delhi Sanskrit Academy, Delhi on 23 September 2019.

Dr. Seema Sharma (Kaushik) presented a paper entitled, "Yoga for Health and Well-Being" in the UGC Sponsored 3rd National Conference on Latest Trends in Health and Physical Education held at University College of Medical Sciences, University of Delhi on 20-21 August 2019.

Ms. A Porchelvi presented paper entitled, "Environmental Reporting and Company Characteristics: A Study of Indian Companies", presented at UGC sponsored National Seminar on Changing Business Environment in India: Challenges and Opportunities, 28 – 29 February 2020, organized by Shyama Prasad Mukherji College for Women, University of Delhi.

Dr. Ambuja Kumar Tripathy presented paper "Urban Citizenship and Marginality: A Study of Bawana Resettlement Colony in Delhi" in seminar on 'Citizenship and Marginality in India's "Global Cities": Slum and Slum Resettlement Colony in Delhi and Bengaluru', organised by Institute for Social and Economic Change, Bangalore, 29 July 2019.

INTERNATIONAL

Dr. Seema Sharma (Kaushik) presented a paper entitled, "Length Dimension Correlates of Longitudinal Physical Conditioning on Indian Male Youth" in the International Conference on Sport, Exercise and Health Sciences held at Vienna, Austria on 26-27 December 2019.

Ms. Ojaswini Hooda presented a paper titled "peripheral Voices, Subversive Spaces" at American Folklore Society Annual Congress held at Baltimore, MD, USA- October 2019.

Placement Details

Number and percentage of students placed: 23 students were selected.

Number of Companies visited for campus recruitment: 10 for Recruitment and 40 for Internship Fair

Extension and Outreach Activities

NSS and NCC-College students continued their best efforts in NSS and NCC. They brought different accolades to the college by participating in various activities at National Level. IGNOU and NCWEB-College also runs NCWEB and IGNOU centers to provide facility of education to those students who are not able to be part of regular college but still is in pursuit of knowledge. The results of the students have remained satisfying in this academic year as well. WISHVAS - Project for Underprivileged area of Wazirpur Village-All the student volunteers for WISHVAS are regular. All the volunteers teach Wazirpur kids. All the students come regularly from underprivileged area and settle class wise. Moral education is also provided to them. Through Khel khel Mey Padna Sikho, we indulge them in activities to make them aware about the social issues. Fine Art classes are also arranged for the students-they thoroughly enjoyed making the paper flowers. All the festivals like Independence Day, Diwali and Republic Day were

celebrated with the students. One of the volunteers provides physical education which includes yoga and training in self defense to the students. Dance classes are also scheduled for the students.

Library Development

2019-2020 saw the culmination of a number of planned improvements in the Library infrastructure. The second floor of the Library now boasts of a Conference Room with a sitting capacity of around 90 people. The room is fully equipped with up to date technology, like an 85” touch panel screen, which would be put to fruitful use in future. Besides this, the floor has also been renovated to incorporate large picture windows to make it well-lit and brighter and a spacious study room with new furniture has also been added to the same. In addition, new clear flooring with well spaced furniture, and proper shelving has added value to the Library set up. Furthermore, in the ongoing process of adopting new software, the Library switched from LibSys to KOHA software formally in 2019-2020. In use worldwide in libraries of all sizes, KOHA is a true enterprise-class ILS with comprehensive functionality including basic and advanced options. It includes modules for acquisitions, circulation, cataloguing, serials management, authorities, flexible reporting, label printing, multi-format notices, offline circulation for when Internet access is not available, and much more. Besides, the Library Committee of Lakshmi Bai College organized Book Fair 2020, on 28 February 2020 in the open courtyard. As the annual acquisition of books for various disciplines is done through the Book fair, the Library would be purchasing around 500 books from the vendors. The highlight of the Book Fair was its inauguration by Mr. Rajesh Singh, Deputy Librarian, Central Reference Library, University of Delhi. He also gave an enlightening lecture on “Research and publication in E-info environment” for the faculty members. He spoke at length about features of E-platforms, E-resources, search techniques etc.

Faculty Strength: 155

Financial Allocation and Utilization

Grant sanctioned: Rs. 565273000

Utilized: Rs. 436296781

MAHARAJA AGRASEN COLLEGE

Major Activities and Achievements

Academic session 2019-20 marks a special milestone in the journey of Maharaja Agrasen College as the college turned 25 years old. Leadership and students, family and faculty, all joined hands together in cohesive synergy to mark this milestone by organizing various events and competitions round the year. The silver jubilee function was organized in September 2019 in which Shri M Venkaiah Naidu, the hon’ble Vice President of India, was the distinguished Chief Guest. Continuing its journey of success and achievements, Maharaja Agrasen College improved its ranking in National Institutional Ranking Framework, 2019 and India Today-A.C Nielsen Survey in the current academic session. Completion of a number of innovation projects, wide-ranging deliberations through conferences and seminars and empowerment of faculty members through various faculty development programmes and other activities/participations, have been some of the other highlights of the year 2019-20. Majority of the faculty members have contributed in many ways by publishing more than 50 research papers, chapters, articles in Research Journals and books. Around 92 faculty members and 9 administrative staff participated in training, workshops, international and national academic conferences. The college launched the eLearning Platform Moodle in January 2019 on the college website in order to augment the conventional teaching-learning process and promote blended learning in the college. The elearning portal served as a boon for both students and faculty and facilitated

the online teaching when face to face classes could not be held due to sudden nationwide lockdown caused by the global pandemic.

Honours/Distinctions

Indrani Dsagupta was awarded the best paper award for research paper 'Zombie as the Other of Human and Heroism: Reading Samit Basu's Game world Trilogy and Mainik Dhar's Zombesitan' in the JTA Multidisciplinary International Conference (JTACON- 2020) for the Literature section.

Nabanita Deka received the Best Paper Award for paper 'Is Language the Key to Power? An Examination of the Power-Play of Language in Mary Shelley's Frankenstein and Rabindranath Tagore's The Exercise Book' at the JTA Multidisciplinary International Conference organized by the Jamia Teachers' Association (JTA), Jamia Millia Islamia, and New Delhi from 16-18 February 2020.

Students with Distinctions

Sangpriya Gautam got the first position in inter-college Marathon tournament.

Sangpriya Gautam got the silver in 5000 metre event in inter -college Marathon tournament.

Ajay Pandey and Himanshu Kumar played the National Softball Tournament from Haryana and Delhi State respectively. Ajay Pandey also played the international tournament in softball.

Abhishek Kumar got the bronze medal in inter-college taekwondo tournament and bagged the gold medal in open taekwondo tournament at Miranda House College.

Publications

Research papers

Agarwal, S.K., 2019. Contemporary Approaches to Public Administration: Development Management and New Public Service, Culture Society & Law, 6 (1), 101-107.

Dasgupta, I., 2019. Crossroads of Life... on Chauraha' written by Jiten Thakur, The Book Review Journal, XLIII, 26-27.

Dasgupta, I., 2019. Theorising the Popular'edited by Michael Brennan (2017), Fortell: Journal of Teaching English, 133-135.

Deka, N., 2020. Is Language the Key to Power? An Examination of the Power-Play of Language in Mary Shelley's Frankenstein and Rabindranath Tagore's The Exercise Book, Studies in Indian Place Names, 40(10).

Maneesha and Pandey, P.K, 2020. Intelligent Energy Information and Management System for Academic Institutes, Advances in Solar Power Generation and Energy Harvesting, Springer Proceedings in Energy. Springer, Singapore, 1166, 93-102. Mittal, A., 2019. Clean Ganga and Sustainable Development, UPUEA Economic Journal of Economics, 15, 45-48.

Ram, R., Soni V, and Khastgir D., 2020. Electrical and thermal conductivity of polyvinylidene fluoride (PVDF) – Conducting Carbon Black (CCB) composites: Validation of various theoretical models, Composites Part B 185, ISSN No. 1359-8368, 107748.

Rajawar, S., 2019. India and Mozambique: Evolving Relations, Insight on Africa, 11(2), 219-232.

Edited Books

Maneesha, Pandey, P.K. and GitanjaliChawla, 2019. Knowledge Organisations: Aspirations and Experiences, Maharaja Agrasen College, ISBN 978- 81-940528-0-7.

Pandey, P.K., Maneesha and Ojha, T.N., 2019. Quality Research for Inspired Learning, Maharaja Agrasen College, ISBN 978-81-940528-1-4.

Chapter in books

Arya, C., 2020. Voices of the self' in book 'The Famished Gods- Speaking Selves in Akkarmashi'by Dr. Praveen Kumar, Anshuman and Ravi PrakashChaubey,Pharos Books Private Limited. ISBN 978- 93-89843-70-5.

Journals

'MAC Voice' published by department of Journalism

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board

Mona Sinha: Co-editor. FORTELL. (Issue no. 39) July 2019. New Delhi.

Prem: Co-editor Conference Proceedings "Reconnecting to Nature (RECON 2019) SPHEEHA (Society for Preservation of Healthy Environment and Ecology and Heritage of Agra), 23 November 2019,Dayalbagh Educational Institute (Deemed University), Agra

Research Projects

University of Delhi,'Culture and Communication in Global Organizations', 2015-16 till date, Rs 12,00,000/-.

University of Delhi,'Cyber Security Help System', 2015-16 till date, Rs 12,00,000/-.

University of Delhi,'Develop a Strategy for the In-house Performance Appraisal and Management of the Employees in the University of Delhi', 2015-16 till date, Rs 12,00,000/-.

University of Delhi,'Developing E-Learning Materials for Information Management of Higher Education', 2015-16 till date, Rs 12,00,000/-.

University of Delhi,' Strategic Management of Higher Education Institutions : A Case Study of University of Delhi', 2015-16 till date, Rs 12,00,000/-.

Seminar organized

Seminar entitled "Power of Women' was organized by the Student Advisory Committee" The chief guest for the event was MrsMridulaSinha, the former Honourable Governor of Goa.

Workshop entitled "IOT &Arduino" in collaboration with CETPA InfoTech Pvt Ltd on 28 September 2019 by Department of Electronics.

"English Proficiency Workshop 2020" was organized on 12 February 2020 for the B.A. (Prog.) students of all three years to create an environment for the students to improvise and reflect on their language skills from aproficiency and a remedial point of view

An Awareness cum Sensitization workshop on “Rights of Senior Citizens - Inter Generational Bonding” was organized by the IQAC for college students and teachers in collaboration with Delhi State Legal Authorities (East) and ANUGRAHA- NGO on 6 November 2019.

IQAC in collaboration with MAC e-learning team organized a 1-week Faculty Development Program on “Elearning and Digital Content Creation” for faculty members during January 2020.

Seminar/Conference Presentations

Abha Mittal presented a paper titled, 'Study of Issues and Challenges in E-Banking: Cyber Crimes' at Golden Jubilee National Conference organised by Gujarat Economic Association at N S Patel Arts College, Anand, Gujarat from 3-5 January 2020.

Abha Mittal presented a paper titled, 'Cashless Economy: A Challenge for India' at 7th International Conference on Management Innovations for Business Sustainability organised by Commerce & Management Association of Indian in association with National Kaohsiung University of Science and Technology Taiwan from 17 to 19 January 2020.

Debosmita Paul presented paper titled 'Gandhi and the Partitions in India: Representation of Gandhi in Modern Indian Drama' at National Seminar on Gandhi in India's Literary Imagination: Rethinking History, Culture and Society, organized by Department of English, JamiaMilliaIslamia and Gandhi Smriti and DarshanSamiti, New Delhi on 22 to 23 October 2019.

GitanjaliChawla presented a paper titled 'The Reincarnation of FolklorismicJugni in Popular Culture' at a 2-day National Conference on Culture and Aesthetics in Indian Folklore on 28 to 29 February 2020 at the South Campus, University of Delhi.

GuntashaTulsi presented a paper titled, 'Gandhi's Ethos and positioning of the Mother Tongue' in an International Conference organised by the Department of English, Delhi University on 4 to 5 March 2020.

Indrani Das Gupta presented a paper titled 'Zombie as the Other of Human and Heroism: Reading

SamitBasu'sGameworld Trilogy and MainikDhar'sZombesitan' at JTA Multidisciplinary International Conference (JTACON-2020) organized by Jamia Teachers' Association (JTA), JamiaMilliaIslamia, New Delhi held from 16 to 18 February 2020.

Indrani Das Gupta presented a paper titled 'Making of Home Amidst Violence: An Examination of Mamang Dai & Robin Ngangom's poems' at the National Seminar on Migration of Youth from North-East India to Urban Metros jointly organized by Centre for North-East Studies, Maharaja Agrasen College, University of Delhi & Centre for North East India, V.V Giri National Labour Institute, Noida.

Indrani Das Gupta Presented a paper titled 'Modernity of the Ship: Reading China Mieville's The Scar' in Sparc Research International Workshop on Oceans as Method organized by MHRD India and JamiaMilliaIslamia, New Delhi in Collaboration with Department of History, University of Witswaterand, and Johannesburg, South Africa held from 25 November to 6 December 2019.

Indrani Das Gupta presented a seminar paper titled “Analysis of John Durham's Voice & Media in Sparc Research International Workshop on Rethinking Articulation: Social Phenomena and Vocal Phenomena in Poetry, Pop & Cultural Studies organized by MHRD India and JamiaMilliaIslamia, New Delhi in Collaboration with Department of English and American Studies, University of Wurzburg, Germany held from 14 to 23 August 2019.

Indrani Das Gupta presented a seminar paper titled “Seascapes of Identity in a Transnational World: Maritime Exploration of Science Fiction Novels” in Sparc Research International Workshop on Thinking with the Sea: Histories of the Indian Ocean organized by MHRD India and JamiaMilliaIslamia, New Delhi in Collaboration with Department of History, University of Witswaterand, and Johannesburg, South Africa held from 25 June 2019 to 9 July 2019.

Placement Details

The Training and Placement Cell has facilitated trainings for over 1300 students and placements & internships for over 60+ students with 46 companies.25 students have been successfully absorbed in 9 different companies and few results are still awaited.

Extension and Outreach Activities

Project ABHI (Agrasen Baroji Help Initiative) :Maharaja Agrasen College adopted a village, BAROJI, in Mewat, Haryana, in 2013. Students and faculty visit Baroji several times every year and have worked together with the residents of Baroji closely towards the holistic development of Baroji.**Equal Opportunity Cell:** This platform of MAC-NSS supports differently-abled, SC/ST members and students from economically weaker sections of its learning community.**Pedal Power Club** seeks to maintain physical fitness, explore the great heritage sites of New Delhi and NCR and become more sustainable by decreasing one’s environmental impact.**Agrani** mobilizes young learners and encourages them to advance gender equality and women development.**Linked Learning** : a program of learning is socially connected, and encourages interest driven ideas to ensure interdisciplinaryresearch opportunities.**Project AKSHAR**, is all about imparting education. MAC-NSS Coordinator and student volunteers in this project deliver quality education to the underprivileged children in the vicinity. Approximately 60 to 90 students from nearby colonies like Dallupura and Kondli are enrolled in this project. Classes are held in the college premises from 3:30 pm to 4:30 pm. A very well designed structure along with all the necessary teaching aids and a highly interactive pedagogical technique is used by Team AKSHAR. Parent teacher interactions and tests guide to evaluate their growth.

Library Development

The Library is well established with a good collection of more than 41,832 books and print journals, popular magazines and other important e-resources pertaining to areas likes Science, Commerce and Arts. The Library is well equipped with the latest information technology and managed by professional staff. The Library is fully automated by Alice for Window Library software.

Faculty Strength: 119

Financial Allocation and Utilization

Grant sanctioned: Rs. 265600000 Crore

Utilized: Rs. 307900000

Other Significant Information

Parent-Teacher interaction 'Samvaad' was organized in February 2020 in order to provide a platform through which the parents can interact and share their concerns with the faculty members directly. This interaction helped the faculty members to understand the students better and provided valuable feedback to enhance the teaching learning process in the college.Second edition of Sports Meet for Women 'Shakti-Spardha' was organized on 3 March 2020 by the hostel committee in the college in order to encourage and attract mass participation of MAC women fraternity.A 5-day Webinar was organised by the MAC elearning team and MACIQAC on 'eLearning Technologies' for faculty members of college in line with 'Bharat Padhe

Online' campaign started by UGC. The program was organized to ensure productive use of the lockdown period in the wake of the COVID-19 outbreak. The webinar was conducted in collaboration with Guru AngadDev Teaching and Learning Centre, MHRD to promote ICT for teaching learning process under PMMMNMTT Scheme (Pandit Madan Mohan Malviya National Mission on Teachers and Teaching) from 18-22 April 2020. 45 teachers participated in series of workshops and 43 completed it successfully. The program covered topics on Learning Management System, Moodle platform and Content Creation.

MAHARSHI VALMIKI COLLEGE OF EDUCATION

Major Activities and Achievements

The Academic Session 2019-20 started with a well-planned three-day Orientation Programme addressing all aspects of the two-year B.Ed. programme. *Varsha Vriksharopna* was observed through a plantation drive in the College on 23 August 2019. Hindi Divas was celebrated on 14 September 2019. *Fit India Plogging Run* was held on the occasion of 150th Birth Anniversary of Mahatma Gandhi on 2 October 2019. A medical camp on *Poshan Maah* was organized on 4 October 2019. The College observed a Vigilance Awareness Week on 'Integrity- a Way of Life. Constitution Day and *Rashtriya Ekta Diwas* were celebrated through special assemblies. The College had its Sports Day 11 February 2020. Groups of students visited Kulachi Hansraj Manovikas Kendra and Amar Jyoti Charitable Trust in January and February to understand the functioning of institutions working in the domain of special education.

Honors/ Distinctions

The first three position holders in the B.Ed. Annual Examination 2019 of the University of Delhi are the students of the College. In all, eight students of the College got distinction in the B.Ed. Annual Examination 2019 of the University of Delhi.

Publications

Gupta, Vandana (2020). *Bullying in Schools*. New Delhi: Mahi Publication. ISBN: 978-93-89339-38-3.

Kumar, Ashwini (2019). व्यवस्थाकाबोझबच्चोंके सिर. इ-चेतना. 2455-8729

Kumar, Ashwini (2019). औपचारिक शिक्षा व्यवस्था पर अनियोजित शहरीकरण का प्रभाव. शैक्षिक उन्मेष. -2581 687X

Seminar/Conference Presentations:

Prapanna, Raghavendra and Ritu Bala. (2019, December 21). *Dalit evam Narivadi gyanmimansha me Aalok me vidyalayi Hindi*. International Conference on Innovative Research in Arts, Culture, Language, Literature, Education, Philosophy and Religious Studies, New Delhi, India.

Arya, Nisha. (2020, January 9-10). Adulthood is Har: Towards Theorizing the process of identity development of women during the transition phase from adolescence to adulthood. International Conference on 'Through a (new) Looking Glass: Challenges for Women in 21st Century', New Delhi., India.

Negi, Rama (2019, November 6-7). Discovering Gandhi: Relevance of his Ideas & Principles in Today's Education. National Seminar on Discovering Gandhi: Relevance of his Ideas & Principles in Today's Education, Greater Noida, India.

Faculty Strength:

Permanent:14

Ad-hoc:4

Financial Allocation and Utilization:

Grand sanctioned: Rs. 9,68,31,171

utilized: Rs. 7,30,82,181

Other Significant Information

In-house student seminars organized on the themes-

Teacher As An Agent of Social Change

Aims of Education

Education As Reflective Practice

Inclusive education: scope, significance and challenge

MAITREYI COLLEGE**Major activities and achievements**

A total of 1099 students appeared in the final year Examination and the overall pass percentage was 91.9%. Two Maitreyi students secured merit positions in Delhi University. The highest package offered was 9.6 LPA. The college initiated the practice of conducting one day educational excursions. Maitreyi College has established a Sports Centre & Facility named as 'Pragati', which aims to promote Netball among the young girls of the country. College has initiated 'All Rounder Student Achiever Award' from each course. The college gardens won 18 prizes including, Persian Cup, Deshbandhu Cup, Dr. Janaki Amma Cup and 2nd prize for Greenery and Cleanliness of the Campus. First ever TEDx event was organized on 24 October 2019 with the theme "A Proposal Towards Humanity". Under the Summer Internship Program 49 Faculty members and 95 students were involved in 23 research Projects and a new venture, 'Annual Research Projects' was initiated from January 2020.

Honours/Distinctions

Dr. Prachi Bagla from Commerce Department received the Best Teacher Award from the Government of NCT of Delhi.

Dr. Mala Kapur Shankardass from Sociology Department received the International Rosalie S. Wolf Memorial Award in Elder Abuse from International Network for Prevention of Elder Abuse, as recognition and honour for her contribution on rights of older people.

Dr. Pardeep Rai, Librarian, Maitreyi College, received ASIALA Innovative Librarian Award 2020 from Asian Library Association, for his innovative library services.

Dr. Renu Gupta from Zoology Department received International Innovative Researcher of the Year in Ciliate Biology award from Research Under Literal Access Awards in 2019, for her innovative research in the field of ciliate biology.

Dr. Pramod Kumar Singh from Sanskrit Department received Excellence Award for in Service Teachers (45 Years or Below) from University of Delhi for his outstanding service and contribution to academic activities.

Dr. Pramod Kumar Singh from Sanskrit Department was awarded Prof. S.N Dubey Gold Medal for securing highest marks in M.A. (Philosophy) from UPRTOU, Allahabad.

Dr. Geeta Pandey from Hindi Department received Acharya Chanakya Shikshavid Samman 2019 for her outstanding service as an educator from Fun 2 Learn Institute.

Dr. Mamta Dhawan from Hindi Department was awarded Tilka Manjhi National Award for excellence in writing and social work from Ang Madad Foundation.

Students with distinctions

Monika Soni of B.Sc. (H) Chemistry III Year secured V rank in the University.

Himanshi Yadav of B.Sc. (H) Zoology III Year secured VI rank in the University.

Aparna Bisht of B.Sc. (H) Mathematics III Year secured first rank in the college.

Manvi Verma of B.Sc. (H) Physics III Year secured first rank in the college.

Himani Thareja of B.Sc. (H) Botany III Year secured first rank in the college.

Publications

Total number of publications- 41

Babbar, S. and Khurana, K.(2020).Goods and Services Tax and Customs Law.New Delhi, Scholar tech press.

Badhani, S. and Muttoo, S. (2019).CENDroid—A cluster-ensemble classifier for detecting malicious Android applications.Computers & Security, 85, 25-40.

Bhandari, H. and Ruhi, G.(2020).Corrosion preventive materials and corrosion testing.CRC Press Taylor and Francis Group.

Chaudhary, A. (2019).Arylglyoxals as Versatile Synthons for Heterocycles Through Multi-Component Reactions. Current Organic Chemistry, 23, 1945-1983.

Chilana, R.(2019). There's something to be said,/ after all,/ for giving in":An Analysis of the Veil in Imtiaz Dharker's Purdah and I Speak for the Devil. Lapis Lazuli, 9, 211-220.

Prasad, V., Lumb, S., Talwar, S.L., Lefkidis, G. and Hubner, W. (2019). Confinement effects on persistent currents in hydrogenic atoms. Physica Scripta, 94. 125015.

Sehrawat, A., Chanu, Y. and Deswal, R. (2019). Cold modulated nuclear S-nitrosoproteome analysis indicates redox modulation of novel Brassicaceae specific, myrosinase and napin in Brassica juncea. Environmental and Experimental Botany, 161, 312-333.

Shankardass, M. K.(2020). International Handbook of Elder Abuse and Mistreatment. Singapore, Springer Nature Singapore Ltd.

Somasundaram, S., Abraham, J.S., Maurya, S., Toteja, R., Gupta, R. and Makhija, S. (2019). Expression and molecular characterization of stress-responsive genes (hsp70 and Mn-sod) and evaluation of antioxidant enzymes (CAT and GPx) in heavy metal exposed freshwater ciliate, Tetmemena sp. Molecular Biology Reports, 46, 4921-4931.

Wassan, J.T., Wang, H., Browne, F., and Zheng, H. (2019). Phy-PMRFI: Phylogeny-Aware Prediction of Metagenomic Functions Using Random Forest Feature Importance. IEEE Transactions on Nanobioscience, 18(3), 273-282.

Journals Published by the College

Samvedanā e-Research Magazine (ISSN: 2581-9917) published by the Internal Complaints Committee of Maitreyi College.

Number of College teachers serving as Editor(s)/Member(s) of Editorial Board: Five

Research Projects

DBT sponsored "Understanding Signaling mechanism of inflammation of fish *Channa punctatus*" Rs2,061,273.90, Dr. Brototi Roy

Seminars organized

'Assessment and Accreditation of Best Practices in Higher Education Institution Under NAAC Framework' organized by Internal Quality Assurance Cell, Maitreyi College in collaboration with NAAC from 5-6 November 2019.

"Woke Women Work" organized by E-cell 'Meraki' and The Vedica Scholar's Programme for Women on 9 January 2020.

'Women Safety and Empowerment' organized by Delhi Police in collaboration Students Union on 5 February 2020.

'How to do well in interview' organized by Placement Cell and T.I.M.E. Institute on 24 February 2020.

Conferences organized

National conference on "Biotechnology in present Era: Impact on Human Life and Environment" on 23 August 2019 in collaboration with Department of Biotechnology (DBT), Govt of India, (under the CTEP program of DBT)

Botany Department organized a National conference on "Intellectual Property Rights (IPR): Challenges and Prospects" on 22 to 23 October 2019

Seminar / Conference Presentations

Total number of presented papers: 99

Dr. Sushil Kumari, Department of Sanskrit, presented a paper "Sanskrit vangmaye strinam Adhikarah (संस्कृतवाङ्मयेस्त्रीणामधिकारः)" in "Delhi Prantiya Sanskrit Vidushi sammelanm" organized by Shri Lal Bahadur Shastri rashtriya Sanskrit Vidyapeethm on 19 May 2019.

Ms. Shipra Verma, Department of Physical Education presented paper “Inclusive Physical Education Learning need for Special Student” on “International Conference on early childhood development for children with intellectual disability organized by Special Olympic Bharat at Amity University, Noida, (U.P) on 12 to 13 September 2019.

Dr. Atika Chandra and Dr. Pooja Baweja, Department of Botany presented poster “Climate change & Epigenetic variation: assessing Environment” in International Seminar "Science , Environment & Spirituality (ISSES 2019)" organized by Shivaji College, University of Delhi held on 13 September 2019.

Richa Chilana, Department of English, presented a paper “Home-ing the World and Worlding the Home: An Understanding of Singlehood, Rental Housing and Neighbourliness" in an International Seminar "Locating Neighbourhoods in the Global South" organized by Department of Sociology, Tezpur University, Tezpur held on 25-26 September 2019.

Dr. Mala Kapur Shankardass, Department of Sociology, delivered a talk “Voices and Concerns of the Elderly” in National Conclave on "2nd Annual Senior Care Conclave" organized by Helpage India at New Delhi held on 1 October 2019.

Dr. Pradeep Kumar, Librarian, Maitreyi College, delivered a talk “Bridging Educational Divides through MOOCs & OERs” in one day National Seminar on "Bridging Educational Divides through MOOCs & OERs" organized by National Law University, New Delhi on 23 November 2019.

Dr. Rajni Johar Chatwal, Department of Chemistry, presented a paper “Advantages of Natural binder over conventional binder on combustion characteristics of potassium nitrate/potassium chlorate-based pyrotechnic mixture” in International conference on "High energy material Conference and Exhibits" organized by IIT, Chennai held on 16-18 December 2019.

Dr. Pawan Kumar, Department of Mathematics, presented a paper “Fixed point theorems in Menger Spaces using the notion of CLR and JLR property” in an International Conference "M3HPCST-2020" organized by Indraprasth College held on 9-11 January 2020.

Dr. Geeta Pandey, Department of Hindi, presented a paper “Hindi ka vaishvik sandrbh” in International Seminar "Nai Duniya ,Naya Bharat ,NAI Hindi" organized by Vigyaan Bhawan New Delhi (organized by Hansraj College) held on 10-11 January 2020.

Dr. Brototi Roy, Department of Zoology, presented Poster “Inductive expression of NOD1 in fish *Channa punctata* by bacterial infection and identification of key motifs involved in ligand recognition” in International Summit on Women in Stem- Visualizing the future: New Skylines ISW 2020 held on 23-24 January 2020.

National/International MoUs signed

With Indian/Foreign Universities

MoU signed with Research Department for Limnology, University of Innsbruck, Austria

With Indian/Foreign Companies/Industry

MoU signed with

Indian Business Chamber, New Delhi

Translational Health Science and Technology Institute (THSTI), Faridabad

“Jaagruti” Waste Paper Recycling Services

Netball Federation of India, New Delhi

Band Association of India, New Delhi

New Delhi District Legal Services Authority, New Delhi

Youth for Seva, New Delhi

Special Olympics Bharat, New Delhi

Datastrom INC., New Delhi

ICT Academy, New Delhi

Students under Exchange Programme

Inbound/Outbound

Maitreyi College in association with Translational Health Sciences and Technology Institute (THSTI) organizes

“Shadow a Scientist Program” this year on 16-27 December 2019. Under this head, college had sent 5 third year students from life sciences to learn different techniques of different areas of interest.

Placement Details

Number of companies: 50

150 students got into their desired Internships.

51.66% (out of registered students) got placed in their desired companies.

Extension and Outreach Activities

NSS wing of Maitreyi College organized slum internship for education of lesser privileged students and to re-develop slum areas. Volunteers motivated and encouraged parents to send their children to school and make people aware of the value of education. A project to help visually challenged children in exam writing held in session 2019-20. Our 12 students actively participated and acted as scribe for children. ‘Life is a game play it’ was held in session 2019-2020. A total of 2 teachers and 26 students participated. The students participated in interactive workshops for overall personality development. The programme focused on making the students self-reliant to handle a situation and act more maturely with a problem solving attitude. The short term ‘Literary Course’ aimed to promote consciousness of legal culture was conducted. A visit to Patiala House court and Chanakyapuri police station was organised. A total of 200 students participated and were acquainted with cyber laws, women's law and taught how to file an FIR. Celebrated “International Yoga Day” on 21 June 2019 with its theme “Yoga for Climate Action”. Mr. Kiran, ONGC Director, was the chief guest for the event. Various students from NSS group of Delhi University were also part of this yoga day. Organized a ‘Save Water Rally’ on 21 August, 2019. A students committee was formed to control wastage of water in college and suggest measures to bring effective changes in water conservation efforts in college. Organized a “Menstrual Hygiene Workshop” in association with NGO Youth for Seva on 12 September 2019. More than hundred volunteers in college actively took part in it. Six groups (each group consisting of 04 volunteers) went to govt. schools & anganwadi centre where they taught ways to maintain hygiene during menstruation to adolescent school girls. Annual Kids carnival

'Navoudit' was organized in Maitreyi college in association with Youth for Seva NGO on 17 November 2019. 1500 slum children participated in various competitions like clay making, model making, dancing, singing etc, the event was realized with the help of 80 Maitreyi college volunteers and 150 volunteers from various DU colleges. NCC cadets organized blood donation camp in collaboration with Red Cross society and gathered huge crowd across the colleges who volunteered to this noble cause on 23 August 2019. Also rallies for Swatchta Abhiyan Plogging event on 14 Dec 2019. Health and hygiene committee organized a health check-up camp in association with Max Super Specialty Hospital, Saket offering eye, cardiac, orthopaedic, and random blood sugar tests with one to one consultation. A T-3 camp (Test-Treat-Talk) on anaemia was held under Poshan Abhigyan organised by Integrated District Health Society, New Delhi district in which approximately 470 teaching, non teaching staff members and students got themselves examined. Avgaahan, the interdisciplinary academic fest was organised by Maitreyi College in January – February, 2020. It is a unique attempt undertaken by all departments of Maitreyi College to bridge the distance between various disciplines using 'technology'. This-first of its kind - academic fest provides students the right opportunity and platform to unleash their creative skills. It is open to all national and international undergraduate students. This year in "Avgaahan 2020" all competitions were organised in online mode to maximize student outreach and encourage higher participation of students across the globe. A total of 3366 registrations were received from various universities across the world (61% Maitreyi College, 35% Other Colleges in Delhi, 3% Colleges outside Delhi and 1% International). There was huge participation by students of diverse fields in all the competitions including, international participation. The results were declared on 25 February, 2020. Maitreyi Research and Incubation Centre organised a workshop on "Formulating Project Proposals". Under the Summer Internship Program, 23 research Projects were carried out, 16 from sciences and 7 from, social sciences and humanities. 49 Faculty members and 95 students were involved in the 2 month long Summer Internship Program. The students also presented their Summer Internship Project work in different national and international conferences. A new venture, "Annual Research Projects" was initiated from January, 2020 by the Centre for Research. This year 13 projects are being funded by the Centre for Research under its 'Annual Research Projects' scheme. Among these, 4 projects are interdisciplinary in nature. The theme of annual projects for 2020 is "Personal, Environmental and Social Health" and most of the projects fall into the theme. As part of outreach activity, Maitreyi College has collaborated with Sanskriti School with an objective to provide life skill training and hands on learning opportunities to the children with special needs of Sanskriti school, wherein they put up a food stall in our college once a month

Library Development

The College Library acquired 1100 books during 2019-2020. It subscribes to 61 Journals including popular magazines and a collection of 20 Newspapers are available in the library. Library has created its own Institutional repository using DSPACE software which is accessible in the library only. Library users can access the previous and current year syllabus through Maitreyi College Library Repository. The college library has conducted Information literacy program for the students admitted in 2019. Some parents also attended with the students the Library Orientation Program held at the starting of the academic session 2019. College library organized two exhibitions in the library to commemorate Dr. Bhim Rao Ambedkar on 14 April 2019 and Father of the nation Mahatma Gandhi on his birth anniversary from 27 September to 4 October 2019. Librarians' day was also celebrated in the library on 9 August 2019. Maitreyi college library arranged a visit to Pravasi Bhartiya Kendra Library (A special digital exhibition on Mahatma Gandhi) along with 10 faculty members and 100 students on 7 November 2019.

Faculty Strength

Permanent: 83

Adhoc: 69

Financial Allocation and Utilization

Grant received from UGC: 41,25,81,000.00

Grant received from Delhi Admn.: 80,00,000.00

Total grant received: 42,05,81,000.00

Total expenditure: 61,46,13,219.00

Other Significant Information

Maitreyi faculty members authored 09 books, contributed 11 chapters in edited collections, wrote 38 popular articles and published 41 research papers. To promote advanced research in academics, our college also organized 2 National level conferences, 2 Symposia, 2 Seminars, 8 Workshops and 1 Faculty Development Program. A total of 7 magazines were released this year. To enrich the pool of the knowledge, the College invited 61 dignitaries and experts from various fields to enlighten faculty and students with their views and interact to further enhance the institution's cultural, social and educational values. The expertise of Maitreyi faculty is recognized at various National and International platforms. Eighteen faculty members have delivered invited talks and sixty faculty members have presented their research papers in Conferences.

MATA SUNDRI COLLEGE FOR WOMEN

Major Activities and Achievements

On 16 August 2019 the College received approval for establishing an IGNOU Learning Support Centre (29060) from Dr. Amit Chaturvedi, Regional Director, IGNOU. The Centre became functional from 1 September 2019. The Gandhi Study Circle was inaugurated during a two-day function, held on 17 & 18 February 2020. Two international seminars were organised by Divinity Society and Department of Commerce. Two international workshops were organised by Departments of B.El.Ed. and Punjabi. Two national seminars were organised by Department of Philosophy and one national seminar was organised by Department of Physical Education. An International lecture was organised by B.A. Programme society. A week-long interdisciplinary Faculty Development Programme on *Emerging Trends in Research Methodology* was organized by IQAC in collaboration with Mahatma Hansraj Faculty Development Centre from 7 -12 October 2019. 17 webinars were hosted by various departments in the months of May, June and July. An intercollege online Quiz contest was organised by Department of Environmental Science.

Students with Distinctions

Pathika Sharma (MAT/17/67) is the recipient of the "Best Athlete Award". She is the Sports President of the College and plays volleyball.

Sumiran Nagar (BAP/17/285) is the recipient of the "Best Outgoing Athlete". She represented the College in Judo and Wrestling and won many medals.

Priyanshi from B.El.Ed. 1st Year, secured 2nd rank at the University level.

Muskan Tyagi from B.El.Ed. 2nd Year, secured 1st rank at the University level.

Japsifat Kaur from B.El.Ed. 3rd Year, secured 2nd rank at the University level.

Publications

Arora, Renu (2019). Disruptive Trends in Agriculture Debt Relief. *Conference Proceedings* (ISBN) of International Conference *Socio-Cultural Study of Agriculture* held at Mata Sundri College for Women, University of Delhi, 15-16 March 2019.

Dhingra, Puneet Kaur (2019). January Effect- A Stock Market Anomaly. *Focus-IB-WTO: Quarterly Publication of Indian Institute of Foreign Trade*. 21 (4) October- pp.: 27-39. ISSN: 0972-2076.

Gupta, Lokesh Kumar (2019) *Ratankumar Sambhriya ki Pratinidhi Kahaniyan*. Shri Sahitya Prakashan, New Delhi. ISBN: 978-93-86402-50-6

H.K. Dass, Rajnish Verma & Rama Verma.(2019). *Introduction to Engineering Mathematics*.Vol-4. S. Chand Publishing. Delhi. ISBN 978-93-5283-746-5

Kaur, Harleen(2019) *Handbook of Company Law* . Wolters Kluwer. ISBN 978-93-89335-27-9

Kaur, Harpreet and Gupta, Lokesh Kumar (2019).ed. *Sahitya aur Vimarsh*, Shri Sahitya Prakashan, Delhi, ISBN: 978-93-86402-48-6

Kaur, Harpreet (2019). Significance of Kartarpur: The Last Abode of Guru Nanak Dev. *Guru Nanak Dev Ji: Jiwan the Vichardhara* (ed) Dr. Harbans Kaur Sagoo, Arsee Publishers, New Delhi, pp. 190-214, ISBN: 978-81-8299-430-0

Kaur, Manjot (2019). Pester Power Strategies for Influencing Parents: A Study Conducted in Delhi/NCR. *Asian- African Journal of Economics and Econometrics*.19 (2). pp. 157-165.

Srivastava, Anshika (2019). Including the Excluded? A Critical Reflection on The RTE Act in Making Elementary Education Inclusive for CWSN. *Right of Children to Free and Compulsory Education Act 2009: Prospects and Challenges*. (Eds.) S.K. Ghosh & P. Sarkar. New Delhi Publishers, New Delhi: Kolkata. ISBN: 978-93-88879-56-9.

Virdi, Ishpreet (2019). Strategic Deception. *Functional Management Contemporary Issues*. Bharti Publications, New Delhi, pp. 125-135. ISBN: 97881-941162-71

Research Projects

Impactful Policy Research in Social Science (IMPRESS) Research Project entitled “बच्चोंकादैनंदिनज्ञानऔरविद्यालयशिक्षाकीपारस्परिकता” under domain Science and Education to Dr. Ravneet Kaur. ICSSR has sanctioned a grant-in-aid of Rs. 12,00,000/-

Patents filed/ granted

Two Patents granted to Dr. Kavita Singh. Details are as follows:

Patent No. 323192 granted on 18 October 2019.

Synthetic merBps gene-organomercurial system is ideal for selecting transformed cells and raising transgenics. The Patent Application No. 4347/DEL/2015 was published in the Official Journal of the Patent Office No. 03/2016 dated 15/01/2016 (Title corrected in the Official Journal of the Patent Office No. 09/2016 dated 26/02/2016).

Patent No. 328854 granted on 2 Jan 2020.

Synthetic merB gene for apt expression in plants to detoxify organomercurials. Indian Patent official journal. Issue No.03/2016; dated 15/01/2016 pg. 13.

Seminars Organised

The Department of Commerce organised an International Conference on *Recent Advances and Challenges in Finance and Marketing for New India @2022* from 6-7 September 2019.

To commemorate the 550th Birth Anniversary of Sri Guru Nanak Dev ji, the Divinity Society organised an International Conference on the theme *Guru Nanak Dev ji: Life, Philosophy and Legacy* on 27 and 28 September 2019.

The B.El.Ed. Department organised a three-day International Seminar-Workshop in collaboration with *Haute école pédagogique* (HEP), Lausanne, Vaud, Switzerland on *Practices and Pedagogies for Sustainability* from 3 to 5 February 2020.

The Department of Philosophy hosted a National Seminar on *The Mystery of Self* on 16 August 2019. The seminar was sponsored by Indian Council of Philosophical Research.

To commemorate the 550th Anniversary of Shri Guru Nanak Dev ji, the Department of Physical Education organized a National Seminar on *Shastar Vidhya- Jai Te Gang, Rabab Ton Nagare Tak* in association with Delhi Gatka Association (DGA), Delhi Sikh Gurudwara Management Committee (DSGMC) and Tegh Sikh Martial Arts Academy, Delhi (TSMAAD) on 19 August 2020.

Conferences Organised

The Department of Philosophy hosted a National Conference on *Professional Ethics: Theory and Practice* from 21 -22 January 2020, which was sponsored by ICPR.

Seminar/Conference Presentations

Prof. Harpreet Kaur presented paper at Dera Baba Nanak Utsav at *Dera Baba Nanak Literature Festival* from 8-11 November 2019 during the celebrations of 550th Birth Anniversary organized by Government of Punjab

Gursharan Kaur presented “Guru Nanak Dev and Music” at the International Conference *Guru Nanak Dev Ji: Life, Philosophy and Legacy* at Mata Sundri College for Women, University of Delhi on 27- 28 September 2019.

Dr. Laxmi Vats presented a paper “Corporate Social Responsibility: An Overview” at the International Seminar *Recent Advances and Challenges in Finance and Marketing for New India @2022* organised by the Department of Commerce, Mata Sundri College for Women on 6-7 September 2019.

Dr. Sarabjeet Kaur presented a paper “Customer Satisfaction, Customer Relationship and Motivation: Integrative Analysis” at International Conference on *Recent Advances and Challenges in Finance and Marketing* in New India on 6 -7 September 2019.

Ms. Charanjeet Kaur presented a paper “Comparison of Coping with Adversity among Male and Female Players of Kabbadi using Athletic Coping Skill Inventory” at UGC Sponsored National Conference *Yoga And its Potential to Heal the Planet* held at Aditi Mahavidyalaya, University of Delhi from 28-29 January 2020.

Dr. Hemlata Krishnani presented a paper “Religious Faith and Well-being: Guru Nanak Dev Ji” at the International conference titled *Guru Nanak Dev Ji: Life, Philosophy and Legacy* organized by Mata Sundri College for Women on 27-28 September 2019.

Dr. Kalpana Sharma presented a paper “*Narayaniyam Stotra Kavya me Bhakti ki Avdharana*” at a National Seminar in Hindu College, University of Delhi held on 19-20 September 2019.

Dr. Harvinder Kaur presented a research paper titled, *Guru Granth sahib vich darj Kabir Bani*, at National Seminar, ARSD College, University of Delhi, Delhi 19-20 September 2019.

Dr. Amarjeet Kaur presented a paper titled, “*Guru Nanak Dev ji Diya Udasiya ate Osda Prabhav*” at National Conference, Central University of Himachal Pradesh, 26 -27 September 2019.

Dr. Moitri Dey presented a paper “Efficacy of MGNREGS in achieving SDGs” at the International Seminar under UGC-SAP DR.S-I Programme on *Democracy and Public Policy in India: Choices and Outcomes* organized by Department of Political Science, Jamia Millia Islamia held on 26 -27 February 2020.

National/International MoUs signed

MOU between Al Zahara College for Women Muscat, Oman and Mata Sundri College for Women

MOU between M/s 9ILT Pvt. Ltd., Certiport Authorised Testing Center-Microsoft, EC-Council, Adobe, Autodesk, & Mata Sundri College for Women

BSE Institute Ltd. (BIL) & Mata Sundri College for Women

Other Inter-Institutional Collaboration

Various Programme collaboration with following institutions:

UGC

ICSSR

Punjabi Sahit Academy

Haryana Sahitya Academy

Delhi Gatka Association, DSGMC and Tegh Sikh Arts Academy

Mahatma Hansraj Faculty Development Center (MHRFDC) Hansraj College, University of Delhi

Indian Council of Philosophical Research

Haute école pédagogique (HEP) Lausanne, Vaud, Switzerland

Gandhi Study Circle

PCRA

Placement Details

Number of students placed: 36

Number of campus visited for campus recruitment: 8

Library Development- 1300 books were added this academic year. The college subscribes to 76 journals and magazines and 17 newspapers.

Faculty Strength

Permanent: 79

Ad-hoc: 89

Financial Allocation and Utilization

Grant sanctioned: Rs. 45,41,39,000/-

Utilized: Rs. 45,68,24,406/-

MAULANA AZAD INSTITUTE OF DENTAL SCIENCES

Major activities and achievements The Institute is catering an average of 1700 Patients/day. The institute has renewed its NABH accreditation for a span of three years till 2021, the only Dental Institute with this accreditation. Alone and one of its kind in India, is the Mobile Dental Project under NHM having 6 Mobile Dental Units catering Delhi Dispensaries. Has collaborated with Temple University of the Common Wealth system of higher education on behalf of Kornberg School of Dentistry, Philadelphia, USA. With support from DRI Clinton Initiative, we are the **first institute in Asia**, to uptake Installation of high tech filters: *Amalgam separators* for the dental chairs; as a part of the “**Clinton Global Initiative**”. The institute has been Ranked number one college in India by NIRF and the Magazines Outlook, India Today and The Week Dental Colleges Survey -2020. Under the NIMTLI Dental Implant project first indigenous dental implant system has been developed.

Honours/Distinctions

National Institutional Ranking Framework by MHRD has ranked MAIDS as number one Institute in India in Dental Colleges category. The institute has been judged as the best dental college among all the Dental Institutes in India by the **The India Today Survey** on Best Dental Colleges 2019 and **The Week Magazine** best Dental colleges Survey 2019 for exalted in the categories of research, patient work and infrastructure.

The institute was awarded “Rao memorial award” for best outreach activities by Famdent awards 2018 at Mumbai in the month of December 2019.

Dr Mahesh Verma, Director-Principal of Maulana Azad Institute of Dental Sciences (MAIDS), has been appointed the Vice-Chancellor (VC) of Guru Gobind Singh Indraprastha University in July 2019.

Dr. Sangeeta Talwar was awarded Fellow of the National Academy of Medical Sciences (India) by NAMS, India in October 2019.

Dr Tulika Tripathi was awarded the State Award for the year 2014-15 by Dept of Health & Family Welfare, Govt of NCT Delhi at MAMC Auditorium, New Delhi in the month of 18th February 2019.

Students with distinctions

Ms. Arzoo Pathak

Ms.Roohi Sobti

Mr.Pooja Jain

Ms.Ayushi Saha

Publications

International

Nangia, D., Nawal, R. R., Yadav, S., & Talwar, S. (2020). Influence of Final Apical Width on Smear Layer Removal Efficacy of Xp Endo Finisher and Endodontic Needle: An *Ex Vivo* Study. *European endodontic journal*, 5(1), 18–22. <https://doi.org/10.14744/eej.2019.58076>

Jain, R. A., Verma, M., Gupta, R., Gill, S., & Ghosh, M. (2019). Fabrication of a bicomponent hybrid orbital prosthesis. *The Journal of prosthetic dentistry*, 122(6), 568–572. <https://doi.org/10.1016/j.prosdent.2019.04.006>

Tripathi, T., Singh, N., Rai, P., & Khanna, N. (2019). Separation and pain perception of Elastomeric, Kesling and Kansal separators. *Dental press journal of orthodontics*, 24(2), 42–48. <https://doi.org/10.1590/2177-6709.24.2.042-048.oar>

Tandon, S., Lamba, A. K., Faraz, F., Aggarwal, K., Ahad, A., & Yadav, N. (2019). Effectiveness of anterior middle superior alveolar injection using a computer-controlled local anesthetic delivery system for maxillary periodontal flap surgery. *Journal of dental anesthesia and pain medicine*, 19(1), 45–54. <https://doi.org/10.17245/jdapm.2019.19.1.45>

Urs, A. B., Kumar, P., Mohanty, S., Augustine, J., Kohli, S., & Singh, S. (2019). Slowly enlarging mass in maxilla and maxillary sinus. *Journal of stomatology, oral and maxillofacial surgery*, 120(3), 274–277. <https://doi.org/10.1016/j.jormas.2019.01.009>

Bhatt G, Gupta S, Ghosh S, Mohanty S, Kumar P. Central Osteoma of Maxilla Associated with an Impacted Tooth: Report of a Rare Case with Literature Review. *Head Neck Pathol*. 2019 Dec;13(4):554-561. doi: 10.1007/s12105-018-0994-3. Epub 2018 Dec 18. PMID: 30564996; PMCID: PMC6854353.

Kapoor, G., Goswami, M., Sharma, S., Mehta, A., & Dhillon, J. K. (2019). Assessment of oral health status of children with Leukemia: A cross-sectional study. *Special care in dentistry : official publication of the American Association of Hospital Dentists, the Academy of Dentistry for the Handicapped, and the American Society for Geriatric Dentistry*, 39(6), 564–571. <https://doi.org/10.1111/scd.12419>

Kumar P, Surya V, Urs AB, Augustine J, Mohanty S, Gupta S. Sarcomas of the Oral and Maxillofacial Region: Analysis of 26 Cases with Emphasis on Diagnostic Challenges. *Pathol Oncol Res*. 2019 Apr;25(2):593-601. doi: 10.1007/s12253-018-0510-9. Epub 2018 Oct 31. PMID: 30382526.

Chahar, P., Mohanty, V., Balappanavar, A. Y., Yadav, V., & Kapoor, S. (2020). Cross-cultural Adaptation and Validation of Hindi Version of Child Oral Impacts on Daily Performance Index. *International journal of clinical pediatric dentistry*, 13(2), 124–129. <https://doi.org/10.5005/jp-journals-10005-1720>

Hashmi, S., Mohanty, V. R., Balappanavar, A. Y., Yadav, V., Kapoor, S., & Rijhwani, K. (2019). Effectiveness of dental health education on oral hygiene among hearing impaired adolescents in India: A randomized control trial. *Special Care in Dentistry*, 39(3), 274–280. <https://doi.org/10.1111/scd.12374>

Journals

Published by College : MAMC Journal of Medical Sciences

Number of college teachers serving as Editor(S)/Members(s) of Editorial Board: 33

Research Projects

Council of Scientific & Industrial research (CSIR), 2013 to 2020, Designing & manufacture of indigenous dental implants under the New Millennium Indian technology leadership initiative (NMITLI), 472 Lakhs.

Department of Science and Technology (DST), 2018-2021, Design and Development Of Indigenous Instrument Retrieval Equipment For Removal Of Broken/ Separated Files During Endodontic Therapy, 86.2 Lakhs.

Department of Science and Technology (DST), 2019 to 2021, The Impact of Endodontic Microscope On The Outcome of Root Canal Treatment On Deciduous Molars, 39 Lakhs.

Department of Health Research (DHR), **2018-2021**, Evaluation of Dimensional Changes In The Alveolar Ridge Following Tooth, Extraction with or Without Using Indigenously Prepared Decalcified Freeze Dried, Bone Allograft – A Clinical Study, 30 Lakhs.

Department of Health Research (DHR), 2018 to 2021, An evaluation of psychosocial, morphological and functional benefits of Nasoalveolar moulding in infants born with Cleft Lip and Palate, 51.86 Lakhs.

Patents Filed/Granted

Number and title of national patents – 2; Development of Dental implants; A pit and fissure sealant composition

Number and title of international patents –Development of Dental implants

Number and title of collaborative patents-Industry - Development of Dental implants (with IIT, Delhi)

Seminars Organized

International

Adam Stabholz, “Portable Dentistry Lasers in endodontics”, 28 March 2019.

Dr. Robert C, “Age estimation project: our experiences and practice”, 30 November 2019.

Dr. Prashant Verma, “Endodontics or Implants ; A decision Guide”, 30 November 2019.

National

A national conference of “17th National Conference of Indian Association of Forensic Odontology” “Forensic Odontology”, 20-22 September 2019.

A national conference of “27th IES National Conference”, “Endodontics”, 21-23 December 2019.

A national specialty post graduate convention of “13th IAPHD National PG Convention (Indian Association of PHD)” ; “Advancing Public Health Dentistry Landscape in India”, 13 – 14 June 2019.

Conferences Organized

A national conference of “17th National Conference of Indian Association of Forensic Odontology” 20-22 September 2019, International Committee of Red Cross (ICRC) & MAIDS.

5th Global American Academy of Implant Dentistry - Conference & 1st Asian Hard and Soft Tissue Symposium, 1 – 3 March 2019, AAID & MAIDS.

Seminar/Conference Presentations

International

Dr. Sangeeta Talwar delivered a Keynote lecture on “Calcium Silicate Based Cements – An Endodontics Panacea” at 20th Scientific Congress of Asian Pacific Endodontic Confederation & 14th International Congress of Turkish Endodontic Society, Istanbul, Turkey in the month of 26 April 2019.

Dr. Ruchika Roongta Nawal delivered a scientific paper presentation on “Comparative Evaluation of Effectiveness of Contemporary Instrument Retrieval Systems and its effect on fracture resistance of teeth “ at 19th Biennial meet of European Society of Endodontics, ESE , Vienna ; Europe in the month of 11th to 15 September 2019.

Dr. Sunita Gupta delivered a Poster presentation on “Novel Treatment and Prognostic Value of EMT Biomarkers in Oral Submucous Fibrosis “ at IADR 2019 Vancouver, Canada in the month of 20 June 2019.

Dr.Mridula Goswami & Dr. Gyanendra Kumar delivered a scientific Paper Presentation on “Sports Dentistry” at 2nd Biennial Conference of “South Asian Association of Pediatric Dentistry” Kathmandu, Nepal in the month of April 2019.

Dr. Gyanendra Kumar delivered a scientific Paper Presentation on “ Laser Dentistry” at Annual Congress of TAPD, Taichung, Taiwan in the month of June 2019.

National

Dr. Sangeeta Talwar delivered a Keynote Lecture on “ Bioactive Materials in Endodontic – An Evidence Based Review” at 2nd IACDE North Zone Conference at KGMU, Lucknow in the month of 26 August 2019.

Dr Tulika Tripathi delivered a Guest Lecture on “Class III management in Craniofacial Anomalies: Challenges & Solutions” at Rendezvous COSG-2019: Expanding the Knowledge, Chandigarh in the month of 8 September 2019.

Dr. Arundeeep Kaur Lamba delivered a Guest Lecture on “Periodontal & Peri implant plastic surgery – An overview” at AIIMS Periodontal & Peri – implant Plastic surgery Symposium & Microsurgical Cadaveric Workshop, AIIMS, New Delhi in the month of 3 -4 Oct 2019.

Dr. Aadithya B. Urs & Dr J. Augustine delivered a scientific poster presentation on “Chorea acanthocytosis: case reports and review of literature” at PG-Convention, Bhubaneswar, Orissa in the month of 12- 14 July 2019.

Dr. Vikrant Mohanty delivered a Guest Lecture on “Master Training for Training of Trainers of Madhya Pradesh” at National Institute of Health and Family Welfare, MOHFW under NTCP in the month of 10 July 2019.

Number and name of Domestic/International (MoUs) signed with partners

With Indian /Foreign Universities: **Foreign universities**

Maurice H. Kornberg School of Dentistry, Temple University, Philadelphia, Pennsylvania, USA

Hebrew University, Israel

With Indian /Foreign Companies/Industry:**International**

Dental Recycling International, Inc. (Dri)

Other Inter-Institutional Collaborations

Council of Scientific & Industrial Research

Indian Council of Medical Research

IIT Delhi

Students under Exchange Programme

Inbound: 10

Outbound: 15

Placement details

Number & percentage of students placed :

65% of UG students have got post graduate seats. 14% are in private practice. 16% are working as Junior residents in different hospitals.

18 (100%) placement for post graduates passing out from institute.

Number of companies visited for campus recruitment : **1**

Extension and Outreach Work

Number of satellite centers =8 and patients= 1735

Number of school centers=3+3 and patients=556+2641

Number of dental camps = 56

Number of national programs=4 (MDCP,NEEV,ASHA,)

Mobile dental clinic project services = 1 project (6 dispensary services, 3 school services, ASHA) and patients =23401, 56 ASHA'S

Library development

The library is well equipped with 6 desktops, 6727 books, 109 international and 24 Indian journals presently in the library. There are 59 online books and 44 online journals. The library has 6 compacters. The state of the art e- library is being developed along with reading room, Wi-Fi facility with ergonomic chairs spread over 17,600 sq ft.

Faculty Strength

Permanent: 34

Ad-Hoc: 26

Financial allocation and Utilization

Grant sanction: ₹ 55 Crores

Utilized in Rs. – 43,69,62,478.08/-

Any other significant information

The Phase II building of MAIDS is ready to move in and procurement of equipments is in process. An Advanced Continuing Dental Education Lab has been established on the seventh floor of the Institute. State of the art Dental Simulation Systems, Digital Control system, Education Software and Electronic Transmission and Projection system for Live Demonstration will be installed. This lab will be a next level of exposure of teaching for faculty and students with a Video Conferencing Facility. Under the NIMTLI Dental Implant project a CONE BEAM COMPUTED TOMOGRAPHY (CBCT) was installed. The Department of Periodontics aims to combat the limited availability and exorbitant cost of high quality tissues for grafting purposes, through the establishment of a world-class Tissue Bank, the first of its kind in the capital. The addition to the department of Oral Pathology has been the establishment of a polymerase chain reaction (PCR) laboratory. This state of the art laboratory enables us to harness and assess the genetic aspects of maxillofacial pathology. All the departments of the Institute are having postgraduate teaching with 2 seats in each department recognized by Dental Council of India and approved by Ministry of Health & Family Welfare. Setting up of satellite center of MAIDS at Kantinagar hospital with 5 dental chairs is in process. Setting up of 4 MAIDS like centers in Delhi is in process.

MIRANDA HOUSE

Major activities and achievements

Miranda House was awarded All India Rank One amongst colleges under the National Institutional Ranking Framework (NIRF) 2020 for the fourth consecutive year. It was also ranked amongst the top five college in the Science Stream and Arts & Humanities Stream in the India Today Best College Survey 2020. This strengthened its reputation as a college accredited with A+ by NAAC and granted the Star College status by the Department of Biotechnology. Established on 7 March 1948, the college celebrated seven decades of sustained excellence. Various events organized during this year: MirandaXChangemakers series included interactive sessions with academicians, eminent researchers, policy makers and scientists; AuthorSpeak; DBT Star College Scheme sponsored Students Workshop on An Insight into Development of Zebra Fish; Workshop on Biofertilizers was organized under the aegis of DBT Star College Scheme; Miranda House hosted International Girl Child Day with the theme “GirlForce: Unscripted and Unstoppable” in collaboration with UNESCO Delhi. The College won the Vice Chancellor’s Cup at the 62nd Annual Flower Show and swept Seven other awards consecutively for the third year.

Honours/ Distinctions

Dr. Sadhna Sharma was awarded with Bill and Melinda Gates Foundation Global Health Travel Award, January 2020.

Dr. Poonam was selected as CAPES Fellow at Federal Rural University of Pernambuco-UFRPE in Recife, Pernambuco, Brazil, 15-30 November 2019.

Dr. Monika Sharma was awarded with EMBO Travel Grant for attending and presenting a paper at EMBO Workshop held in Crete, Greece, 06-09 October 2019.

Dr. Shweta Sachdeva Jha was awarded the Dr. Amba Wadia Archive Fellowship (2019-2020), SNDT University, Mumbai.

Students with Distinctions

Radhika Chhapolia, B.A. (H) Economics III Year, secured I position in the University.

Vaibhav Sakshi, B.A. (H) Music III Year, secured I position in the University.

Vinita Kumari, B.A. (H) Geography III Year, secured I position in the University.

Bhavya Gautam, B.A. (H) Sociology III Year, secured I position in the University.

Shreen Manocha, B.A. (H) Political Science III Year, secured I position in the University.

Aanchal Singh, M.A. (F) Philosophy, secured I position in the University.

Antara Bhattacharya, M.A. (F) Music, secured I position in the University.

Publications

Publications: 94 Journals; Scopus: 96.

Books 06; Articles in magazine 05.

Sarkar, Anindita (2019), 'The role of new 'Smart technology' to provide water to the urban poor: A case study of water ATMs in Delhi, India', *Energy, Ecology and Environment*, 4(4), pp. 166-174. DOI-10.1007/s40974-019-00119-4.

Upadhyay, C., Monika, Oliveira, R. N. de, Kempaiah, P., Poonam & Rathi, B. 2020. Therapeutic perspectives of fluorinated small molecules impacting antimalarial drug discovery. *Expert Opin Drug Dis*, ISBN/ISSN 1746-0441.

Singh, S., El-Sakkary, N., Skinner, D., Sharma, P. P., Otilie, S., Antonova-Koch, Y., Kumar, P., Winzeler, E.,

Poonam, Caffrey, C. R. & Rathi, B. 2020. Synthesis and bioactivity of phthalimide analogs as potential drugs to treat schistosomiasis, a neglected disease of poverty. *Pharmaceuticals*, 13(25):1-20. doi:10.3390/ph13020025, ISBN/ISSN 1424-8247.

Singh, S., Rajendran, V., He, J., Singh, A.K., Achieng A.O., Vandana, Pant, A., Nasamu, A.S., Pandit, M., Singh, J., Quadri, A., Gupta, N., Poonam, Ghosh, P.C., Singh, B.K., Latha, N., Kempaiah, P., Chandra, R., Dunn, B.M., Pandey, K.C., Goldberg, D.E., Singh, A.P. & Rathi, B. 2019. Fast-Acting Small Molecules Targeting Malarial Aspartyl Proteases, Plasmeprins, Inhibit Malaria Infection at Multiple Life Stages. *ACS Infect Dis*. 5(2):184-198. doi:10.1021/acsinfecdis.8b00197, ISBN/ISSN: 0022-1899.

Gupta, R., Gupta, V. & Tomar, M. 2019. Structural and dielectric properties of PLD grown BST thin films. *Vacuum*, 159:69-75.

Paliwal, A., Tomar, M. & Gupta, V. 2019. Refractive Index sensor using long-range surface plasmon resonance with prism coupler. *Plasmonics*, 14 (2):375-381.

Ganguli, S. (2019). *Aguner parashmoni*, Kristi, ISSN: 23488468, pp 37-43.

Budhiraja, N., Sapna, Kumar, V., Tomar, M., Gupta, V. & Singh, S.K. 2019. Investigation on physical properties of Sn-modified cubic Cu₂O nanostructures. *J. Supercond. Nov. Magn.*, 32 (6):1671-1679.

Singh, M., Bhatt, P., Sharma, M., Varma-Basil, M., Chaudhry, A. & Sharma, S. 2019. Immunogenicity of late stage specific peptide antigens of *Mycobacterium tuberculosis*. *Infect Genet Evol.*, 74:103930.

Singh, S., Sharma, M., Chaudhry, A. & Sharma, S. 2019. Rv2626c and Rv2032 activate TH1 response and downregulate regulatory T cells in peripheral blood mononuclear cells of tuberculosis patients. *Comparative Immunology, Microbiology and Infectious Diseases*, 62: 46-53.

Journals/ Magazines Published by the College

Each department brings out its own creative journal/ magazine that has an Editorial Board with adequate representation of students and faculty. These include well researched contributed as well as invited articles, papers and news items.

Pehchan, Department of Hindi

Aapoorti, Department of Economics

Geographica, Department of Geography

Mulakhab, Department of History

VoxPopuli, Department of Political Science

Light House, Department of Sociology

Rasayani, Department of Chemistry

Adazine, Department of Computer Science

Quisqualis, Department of Botany

Vignite, Society for Life Sciences Programme

Mathletics, Department of Mathematics

Dimensions, Department of Physics

Evolvere – the Unfolding, Department of Zoology

Miranda, the College Magazine

Grimoire, the Hostel Magazine

Santulan, The Consumer Club

Research Projects

Projects: 11 ongoing with total grants of about Rs. 8 Crore (Rs. 794.25 lakh).

Dr. Monika Tomar. Fabrication of Lamb Wave Devices on SiO₂/Si Membrane for strategic applications [ERIP/ER/201706006/M/01/1749]; DRDO; March 2019-2022; Rs. 428.03 Lakh.

Dr. Monika Sharma. A study of macrophage apoptosis and mitochondrial integrity in response to PE/PE_PGRS family proteins of Mycobacterium tuberculosis; DST; March 2018-2021; Rs. 68 Lakh.

Dr. Poonam. Development of Nanoantenna Sensors for Infrared Detection. [DST/TDT/DDP-14/2018]; DST; (2019-2021); Rs. 63 Lakh.

Dr. S. Sharma -Coordinator with Co-coordinators from other science department. Star College Scheme 102/IFD/SAN/3819/2016-17; DBT; February 2017-2019; Rs. 53 Lakh.

Dr. Monika Tomar. Realization of MEMS-based Dual Energy Harvester using ferroelectric and ferromagnetic thin film layered structures; DST; (2019-2022); Rs. 51.48 Lakh.

Dr. Poonam. Sustainable route for pesticide management using nano based efficient pesticide formulation technique to enhance crop productivity. [DST/TDT/AGRO-54/2019]; DST; 2019-2021; Rs. 49.5 Lakh.

Dr. Monika Tomar. Development of Ferroelectric thin film based photovoltaic cells [EMR/2017/000194]; DST, July 2017-2020; Rs. 31.54 Lakh.

Dr. Jayashree Pillai, Dr. Sonali Chitalkar. Inter-regional aspirations in Jammu and Kashmir; ICSSR; 2017-2019; Rs. 18.7 Lakh.

Dr. Bijayalaxmi Nanda, PD, 'Declining Child Sex Ratio and Violence Against Women: Examining Girl-Child Discrimination in India'; ICSSR - CSDS; 2018-2020; Rs. 15 Lakh.

Dr. Bhupinder Kaur. Access of Institutional Credit to Small and Marginal Farmers and its Impact on their Livelihood; Indian Council of Social Science Research; 2017-2019; Rs. 8 Lakh.

Dr. Kalawati Saini, Ms. Nutan Rani, Dr. Smriti Sharma Bhatia. To Establish a Pollution Monitoring Station Across road over the Nala at Kingsway Camp and determine effects of pollutants and Air quality on the public health and microflora/microfauna; DBT; 2018-2019; Rs. 8 Lakh.

Patent Filed/ Granted

Dr. Monika Tomar filed for grant of two patents:

Indian Patent: A novel, highly sensitive and reliable LRSPR biosensor for detecting uric acid and fabrication thereof, Vinay Gupta, Monika Tomar, Ayushi Paliwal, Surbhi Jain (Application No. 201911006783).

Indian Patent: Electric field assisted low power consuming conducto-metric gas sensor, Vinay Gupta, Monika Tomar, Anjali Sharma, Avneet Singh (Application No. 201811006329).

Dr. Poonam filed for grant of one patent:

International patent (provisional filed EFS ID: 35137507): Hydroxyethyl amine based piperazine compounds and methods of producing and using the same for treating disease. Rathi, B., Singh, S., Mounce, B., Poonam, Kempaiah,

P., Singh, A.P. & Durvasula, R., Application number: 62804927, confirmation number: 4661.

Seminars Organized

More than 85 lecture seminars were organized including about 15 International speakers.

Department of Political Science organized a seminar on the topic “Exploring Women’s Experiences While Travelling in India”. The speakers included Dr. Caroline Bradbury, Dr. Louise Ishan and Ms. Dana Summut from University of Birmingham.

Department of Physics organized a seminar on the topic “Astrophysical Sources of Gravitational Waves” and “Renewable Energy and Energy Harvesting.” The speakers included Professor Patrick Das Gupta, Department of Physics and Astrophysics, University of Delhi and Prof. Vinay Gupta, Department of Physics and Astrophysics, University of Delhi.

Department of Elementary Education organized a seminar on the topic “Perspectives and Challenges in Mental Health”. The speakers included Prof. Rachana Johri (School of Human Studies, Ambedkar university Delhi), Dr. Geeta Menon (Educationist and Independent professional associated with early learning and elementary education) and Dr. Raqib Ali (Clinical Psychologist and Psychotherapist).

Department of Geography organized an international seminar on the topic “Himsamvad: Sustainable Development in the Indian Himalayan Region: Partnership for Sustainable Development Goal from Himalayan Perspective” supported by the ICSSR.

Department of Sociology organized a seminar on urban life and living with emphasis on death of community living and Hashtags and Social Impact. The speakers included Dr. Peter Doak (an urban sociologist and professor at the University of Leeds), accompanied by Prof. Katusho Bento.

Conferences organized

Department of Chemistry conference/ symposium on *Bonding to Create Future Leaders in Sciences—GWB2020* as a part of the Centenary Celebration of the International Union of Pure and Applied Chemistry (IUPAC).

Department of Zoology organized a conference / colloquium on Medical Biotechnology Colloquium-Tailoring Medical Treatments.

Department of Chemistry organized a conference / workshop on Nano Road Show-2020 at Miranda House, University of Delhi, Delhi.

Department of Elementary Education organized a two-day pop-up conference entitled ‘ELT Professional Development Conference: Field –Tested Practical Activities for the Classroom’ in partnership with Regional English Language Office (RELO) of the U.S. Embassy.

Department of Sanskrit organized a conference on Upanishads in Present Scenario.

Seminar /Conferences Presentations

Shampa Roy presented paper “Female, Guilt Desire and Transgressions in late 19th Century Bangla crime writing, University of Sussex, UK, 4 June 2019.

Shampa Roy presented paper “Translating 19th century Bangla /Bengali Crime writings about female guilt, desire and transgressions, University of East Anglia, U.K, 6November 2019.

Malabika Pal presented paper Land Acquisition for Economic Development: A Comparative Analysis of some landmark US and Indian court judgments, at the Annual Conference of the Law and Development Research Network, Humboldt University of Berlin, 25-27 September 2019.

Gupta B (2019): Paper entitled "Emergent Opportunities Under Globalisation For Indian Diaspora In Europe" at International Conference on Diaspora in Foreign Policy and International Relations Under Globalisation organised by The Institute of Ethnic Studies, National University of Malaysia (KTA-UKM); Institute of Chinese Studies, University of Malaya (ICS-UM); Kingsley Strategic Institute for Asia Pacific Kuala Lumpur and Institute of International Harmony and Sustainable Development (IIHSD Hong Kong at ICS, (KTA-UKM, Kuala Lumpur, Malaysia on 13 September 2019.

Madhu presented a paper "Dalit autobiographies as a way of knowing the Dalit 'Self'" at the Scholars of Colour conference at Temple University, Philadelphia, USA, 12-13 April 2019.

Dr. Kalawati Saini delivered an invited talk "Determination of cellular structure of *Azadirachta indica* and *Ficus religiosa* by using Foldscope Microscopy and Scanning Electron Microscopy", in National Workshop on Advances in Microscopy and Foldscope, organized by Department of Biotechnology, MNNIT, Allahabad, 15-16 March 2019.

Dr. Mallika Pathak, Dr. Malti Sharma and Ms. D. Sharma presented a poster in the International Summit on Women in STEM: Visualizing the future: New Skylines, jointly organised by International Centre for Genetic Engineering and Biotechnology(ICGEB), New Delhi, India Habitat Centre, 23-24 January 2020.

National/ International MoUs

International: These include MoUs with Hoge School Utrecht University of Applied Sciences the Netherlands; Lynchburg College, USA; University of Birmingham; University of Guelph.

National: These include MoUs with Rama Devi Women's University, Bhubaneswar, Odisha; Use google apps for education; Weekendr (Mobiquel); Dhananjayrao Gadgil College of Commerce, Satara, Maharashtra; Civil Society Magazine; Stree Shakti – The Parellel Force.

Other Inter-Institutional Collaborations

Miranda House has linkages with a vast network of academic institutions, social organisations; corporate entities and eminent citizens at large. This year college hosted those from Institutions cited above. The highlight was the visit of a delegation from University of York and University of Cambridge.

Students under Exchange Programmes

Utrecht Business School on Strategic Management and Culture from 27 January – 1 February 2020 12 students and one faculty member comprised the team from UBS, 13 students from MH and 17 from SRCC participated.

Placement Details

Miranda House Placement Cell had a very active and fruitful year. Companies which include ZS associates, DE Shaw Co., TresVista, NIIT, White Panda, ICICI, Oberoi Groups, Accenture, McKinsey & Co.,etc held a recruitment drive; more than 400 students appeared for the process, 28 students were finally deemed to be placed through the Miranda House Placement Cell. The Placement Cell managed to bring a total of 37 internships to the student community of Miranda House. The Placement Cell, Miranda House, organised the Education and Career Fair. About 30 companies visited the fair to employ bright students across plethora of fields.

Extension and Outreach activities

Policy Centre and Gender Lab: Seminar on ‘Collaborative Research to meet Global Challenges’ with Dr Jill Steans, (University of Birmingham). Other seminars were conducted in collaboration with University of Guelph and Oxford like ‘Capacity building and Youth action on Sustainable goals’. *Unnat Bharat Abhiyan:* At the first stage the UBA team at Miranda House identified the five villages, out of which four- Burari (CT), Badarpur Majra Burari, Model Town (Dhirpur) and Jagatpur Ilaqua are in Delhi and Anantpur is in Rajasthan. *Clean Environment Drive: SwachhtaPakhwara*(Cleanliness Fortnight) was celebrated by MH Vatavaran in collaboration with NSS, Miranda House in August. During this drive, students took an oath to keep their surroundings, including the College campus, clean. Several cleanliness drives were organised for three consecutive days. An anti-plastic campaign, #IAMAgainstPlastic, was organised, under which, ‘Carry Your Own Cup’ was a drive in which all members of the MH community – students, faculty and non-teaching staff – were requested to carry their own cups so that they do not need to use plastic cups. More than one thousand students participated in the campaign. *MH Vatavaran:* During the month of August, WWF-India collaborated with MH Vatavaran for taking the *UN Tide Turner Challenge*. For this programme, WWF-India organized a workshop on ‘The Young Leaders Plastic Challenge’. *SPIC MACAY:* The society then organised a folk recital by Shri Anwar Khan Langa and troupe on 9th January, 2019 as a part of the Virasat series. The artistes in the troupe included Shri Barkhat Khan on the dholak, Shri Tekchand and Shri Farooq Khan for vocals, Shri Yasin Khan on the harmonium, Master Mohsin (vocals), and Mohammad Rafi ji on the Khartal. *Laskshita, the Enabling Society:* An awareness drive: The enabling units of a lot of DU colleges came together on the annual fortnight of Eye Donation Drive to participate in a rally organised by Mr. Lalit Kumar, Saksham. The Self Defense workshop was organized in collaboration with the American India Foundation. The students learned the techniques with great enthusiasm and the training served its purpose of boosting the self-confidence of the attendees. *Queer Collective:* This is the first year of Miranda House Queer Collective operating as a formalised society in Miranda House. Society has worked tirelessly to create a safe space in Miranda House for all individuals across genders to exist and find support, holding several meetings to allow our members to find their community. *Adventure Club:* The society accomplished another landmark through a trek in Bir Billing in Kangra district of Himachal Pradesh, world’s second highest paragliding site.

Library Development

The total sanctioned Library Budget was Rs. 18,08,000/-. In the academic year 2019-2020 766 volumes of books were added.

Faculty Strength

Permanent: 132

Temporary: 02

Ad hoc: 76

Financial Allocation and Utilization

Grant sanction: Rs. 60,04,00,000)

Utilized: Rs. 65,31,98,337

Other Significant Information

No. of faculty who are Ph.D. guides is 17; students registered for Ph.D. under them is 33. This promotes research culture. Students have been selected for internships in the best institutes. More than 350 students involved in student research projects. Summer Workshops for Undergraduate Science Students, Flavour of

Research: Investigative Projects in Multidisciplinary Contexts. More than 100 students participated in these DSKC workshops and carried out projects in interdisciplinary fields. Of the graduating class, 21 students have received admissions in well recognized universities abroad with scholarships. Books written by faculty-Purkayastha, S. & Roy, S., Sengupta, S. (ed). 2019. 'Bad' Women of Bombay Films: Studies in Desire and Anxiety, Palgrave Macmillan, London. Pal, M. 2020. *Economic Analysis of Tort Law: The Negligence Determination*, Routledge, UK. Singh, P. coedited. 2019. *Comparative Government and Politics*, Sage Publications, N. Delhi. Sengupta, S. & Sonkar, S. 2019. *Green Chemistry: An Introduction*, Prestige Publication, Delhi.

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MOTILAL NEHRU COLLEGE (EVENING)

Major activities and achievements

The academic engagement in the college were balanced with extra-curricular activities. The college celebrated the Constitution Day on 26 November 2019, Vigilance Awareness Week on 28 October- 02 November 2019, International Day of Yoga among many other. The NSS unit of the college, in collaboration with LEO club, organized a well-attended Blood Donation Camp on 5 April 2019. The Ambedkar Study Circle organized a successful seminar on "Revisiting Ambedkar's Thoughts in India: Exploring Multiple Dimensions" on 15 October 2019. The departments organized various talks and workshops. EVS department celebrated the Earth Day on 22 April 2019 to initiate discussions on environmental issues. The department of Economics organized a National Seminar on "Indian Constitution after 72 years of Independence: Gaps, Challenges and Way forward" on 16 September 2019. The college had its Annual Fest where various cultural societies organized intra and inter college competitions. 'Citragrahini', the photography society of the college collaborated with the NSS and organized photo walks.

Honours/ Distinctions

Dr. Rakesh Sinha is a nominated member of Rajya Sabha.

Dr. R.N. Tripathy was Guest Faculty at University of Leeds, UK, 2019, Under Commonwealth Project.

Dr. Kana Ram Meena has been awarded his PH.D by Department of Hindi, University of Delhi in 2019.

Dr. Priya Bhalla was awarded the reputed Nehru Memorial Museum and Library (NMML) Fellowship for research in Modern Indian History and Contemporary Studies during the period 2018-2020.

Dr. Rajneesh Kler has been awarded his PH.D from Department of Commerce, University of Delhi in 2019.

Debashish Parasher has been invited as a representative of India to the International Writers Meet at Bolivia, by the Writers Union of Tarija in association of UNESCO in October 2019.

The cricket team of teachers of MLNCE has won the Shahid Bhagat Singh Memorial cricket Tournament 2019, at Shaheed Bhagat Singh College, University of Delhi.

The cricket team of teachers of MLNCE was the runner-up at Krishnamurthy Memorial Cricket Tournament 2019, University of Delhi.

Students with Distinctions

Shristi chhetry of Eng (H) V Sem 117/72873 scored 7 CGPA

Vitaan soni of B.Com (H) V Sem 17/72658 scored 9 CGPA

Akash Sharma of Hnd (H) V Sem 17/73005 scored 7.75 CGPA

Prateeksha Mishraof HS (H) V Sem 17/73228 scored 7.25 CGPA

Priyanka Chauhanof PS (H) V Sem 17/73401 scored 8 CGPA

Publications

Sharan, P. (ed).(2019). Language Forum, Bahri Publications . New Delhi. Bahri Publications.

Sharan, P. (2019). The Future of English Language Teaching in India through the Intervention of Technology: Moodle and Moocs. Language Forum, Bahri Publishers.

Tripathy,R.N. (2019) Human Rights, Gender & Environment, Schoalrtech Press Publication, ISBN-978-93-87273-35-1.

Kumar,P.(2019).Emile Durkheim’s educational thoughts: a Practical Approach in Modern Indian Education System. Contemporary Social Science.

Meena, Kana .(2019). Lokpriye Sahitya mai Upansyas ka Badalta Parivesh aur Bhasha, Drishtikon.

Saptarishi (2019). Samska or Sensus Communis: Senosry Poltiics of early Hindu Nationalists writers at workshop on Empire and the Senses, University of Kent, Canterbury United Kingdom.

Debashish Parasher’s poems has been published and translated in different languages of the world in 19 journals, magazines, and books during2019-20.

Journals

Number of college teachers serving as Editor(s)/Members(s) of Editorial Board- ONE

Research Projects

‘Impression & Oppression of Swachh Bharat Mission, A case study of Sawaimadhopur district of Rajasthan &Nalanda district of Bihar’. 2019-21, Major Project sponsored by ICSSR Under IMPRESS Scheme of MHRD, Govt. of India. Dr. P.K. Bairwa& Dr. Pintu Kumar.

‘Redefining Fundamentals of India’s Foreign Policy: The Paradigm Shift since 2014’ by by ICSSR, January 2020. Dr Pintu Kumar.

Seminars Organized

Gandhi Study Circle organized seminar on “Relevance of Gandhian Thought and his Legacies” in 2019, October 2019.

Ambedkar Study Circle organized one day seminar on “Revisiting Ambedkar’s Thoughts in India: Exploring multiple dimensions”, October 2019.

Inter Constitution after 72 years of Independence:Gaps, Clallenges and Way forward ,September 2019.

Seminar/Conference Presentations

Dr. Vichitra presented paper titled “Gandhian Approach to Peace and Conflict Resolution and Analysis”,

Gandhi Bhavan, July 2019.

Dr Pradip Sharan presented a paper titled “The future of English Language Teaching in India through the Intervention of Technology: Moodle and Moocs,” at International ELTAI Conference at Amity University, Noida, India, 9-12 October 2019.

Dr. R.N Tripathy presented a paper titled, “Intra Commonwealth Diaspora and Economically Developed: The Interface between Diaspora and Sending and Receiving Countries.” Leeds University Business School, July 2019.

Dr. Pintu Kumar gave a talk on “Ambedkar’s Slogan-Educate, Unite, Struggle: Enhancing Education for everyone” at one-day seminar on “Revisiting Ambedkar’s Thoughts in India: Exploring multiple dimensions”, October 2019.

Dr Priya Bhalla presented a paper titled, “On Economics and Ethics: Examining the Scope and Relevance of Gandhi’s Economic Ideas” at International Seminar on Gandhi 150 Satyagraha in the 21st Century Social, Ethical and Spiritual Dimensions of the Global Pursuits of Truth held in India International Centre, New Delhi on 22-24 October 2019

Dr. Kana Meena was Resource Person in International Conference at Rajkiya Mahavidhyala, Sant Kabirnagar, Kapilvastu University, 2020.

Extension and Outreach activities

NSS students organized a Blood donation camp in collaboration with AIIMS–8 April 2019. Flag hoisting, planting and cleaning awareness. Clothes and books donation. Debates on Gandhi’s concept of awareness. Awareness rally on crackers. Seminar on road safety. One day seminar on cyber security. Slam poetry competition. Stay home stay safe awareness drive through social media during lockdown.

Library development

Total Budget Expenditure: Rs 6,40,000/-

Books added: 985

Journals subscribed: 09

Magazines subscribed: 07

Newspapers subscribed: 13

Membership of N-List taken.

Faculty Strength

Total Teachers 81

Permanent Teachers– 34

Adhoc Teachers – 43

Guest Teachers – 4

Financial Allocation/ Utilisation

Grant sanctioned - Rs. 3589.80 lakh

Utilised- 2267.27 lakh

P.G.D.A.V. COLLEGE

Major Activities and Achievements

Prakhar saxena pursuing B.Sc (H) computer science from PGDAV college, Delhi university has been selected as one of the best 13 photographers among participants from all over the world in the 'nature unlocked' competition organised by UNECE. His photograph is awarded with the prestigious opportunity to get featured in 'Palais des nations' for an exhibition in Switzerland also it will be used in 2021 calendar of UNECE.

Students with Distinctions

Ms. Vaishnavi Jaiswal of B.Sc (H) Statistics secured 9.82

Mr. Dhruv Chhabra of B.Sc (H) Statistics secured 9.47

Mr. Shubham Yadav of B.Sc (H) Math secured 9.46

Mr. Vikas Kumar of B.Sc Math Sc. secured 9.39

Ms. Priyanka of B.Sc (H) Statistics secured 9.39

Publications Total Number

Garima Gaur Srivastava, Librarian co- authored a book titled 'Academic Libraries'. Published a research article on Plagiarism Awareness: 'A Study of Jamia Millia Islamia' "in Journal of Library and Information Science", vol.43.1

Garima Gaur Srivastava published a paper titled 'Recent Trends in Marketing of LIS Products and Services in University Libraries in an 8th International Conference on Library and Information Professionals Summit' (I-LIPS 2019) held in Lucknow.

Ms. Ritu Gupta, Assistant Professor, Department of Commerce & Kokil Jain, May 2019. "The impact of anthropomorphism on purchase intention of smartphones": A study of young Indian consumers" Indian journal of marketing (scopus), volume 49 issue 5

Bedi, Purnima Khurana, Assistant Professor, Department of Computer Science. (2020). "Sentiment Analysis Using Fuzzy Deep Learning. In Proceedings of ICETIT" 2019 (pp. 246-257). Springer, Cham.

Dr. Varun Bhushan, Assistant Professor, Department of Economics (July- December 2019). "Can India Capitalize the benefits of Demographic Dividend" in Indore Management Journal (IMJ) in Vol. 11 Issue 2.

Dr. Varun Bhushan, Assistant Professor, Department of Economics with Prof. Manipadma Datta 2019 (Bloomsbury publication). "Demographic Dividend in India: A State Level Analysis" in the book titled Business, Economics & Sustainable Development.

Dr. Varun Bhushan, Assistant Professor, Department of Economics May-June, 2019. "Impact Analysis of the SHG Bank Linkage model on empowerment of women in Dehradun" in Arthshastra Indian Journal of Economics and Research Volume-8, Issue number 3, (Bi-monthly).

Dr. Urvashi Sabu, August 2019. Full length book Women, Literature, and Society; Discovering Pakistani Women Poets: Rawat Publications, Jaipur, 2020 Resource Person at workshop on Shakespeare and Cinema, organized by Sophia Girls College (Autonomous), Ajmer Rajasthan.

Pardeep Singh, Assistant Professor, Department of Environmental Studies with Ajay Kumar, Anwesha Borthakur (2019). "Abatement of Environmental Pollutants" Trends and Strategies, 1st Edition UK: Elsevier. ISBN: 9780128180952

Pardeep Singh, Assistant Professor, Department of Environmental Studies with Anwesha Borthakur and Dhanesh Tiwari Pradeep Kumar Mishra 2019. "Nano-Materials as Photocatalysts for Degradation of Environmental Pollutants", UK Elsevier ISBN: 9780128185988

Research Projects

Dr Ashwani Mahajan, Associate Professor, Department of Economics and Dr. Phoolchand, Assistant Professor, Department of Commerce are working on a Major Research Project from ICSSR on the subject of Indo-China Trade Imbalance.

Dr. Pardeep Singh, Assistant Professor, Department of Environmental Studies, is working on a Major Research Project from NPIU (MHRD) on the subject of CO-CH4 oxidation Catalysts for CNG emissions abatement. Role : Co Principal Investigator. Grant Sanctioned : Ten lakh eighty seven thousand only (1087000)

Seminars Organized

हिंदी विभाग, पीजीडीएवी कॉलेज

दिल्ली विश्वविद्यालय द्वारा 08 जुलाई 2020 को नए विमर्शों के सन्दर्भ में भविष्य का साहित्य विषय पर एक अत्यंत महत्वपूर्ण और सार्थक वेबिनार का आयोजन किया गया। वेबिनार की शुरुआत डॉ. मुकेश अग्रवाल (प्राचार्य, पीजीडीएवी कॉलेज) के स्वागत वक्तव्य से हुई ! इसकी अध्यक्षता प्रो. शयोराम सिंह बेचैन (अध्यक्ष, हिंदी विभाग, दिल्ली विश्वविद्यालय) ने की ! मुख्य वक्ता के रूप में प्रो. कुमुदशर्मा (साहित्यकार और आलोचक) और डॉ. अविनिवेश अवस्थी (विचारक एवं चिंतक) ने अपने-अपने विचारों को जकव्याख्यान प्रस्तुत किए। कार्यक्रम का समाहारा पीजीडीएवी कॉलेज की उप-प्राचार्या डॉ. कृष्णाशर्मा ने प्रस्तुत किया।

Department of Political Science organised seminars in which Ms Saandhay Deep Das, IRAS and former Advisor and Chief Accounts Officer with Indian Railways, delivered lecture on 'Transition of Indian Bureaucracy from Steel Frame to Babudom' on 5 September 2019.

Dr Shiv Shankar Awasthy, Former Associate Professor, Department of political Science, PGDAV College, delivered lecture on 'Career choices for students of Political Science' on 20 September 2019.

Sh. Sudhanshu Ranjan, a senior journalist with DD News and a columnist, delivered lecture on 'Pillars of Democracy, on 2 March 2020.

Dr. Pratibha Tiwari, certified NLP master and practitioner, 'Life and Success coach', Hypnotherapist, Career counselor and Healing Expert, delivered lecture on the topic "How Emotional Balance Can Bring Successful Results In Students Life" on 13 September 2019.

Seminars/ Conferences Presentation

Ms. Khushboo Aggarwal presented a paper titled "Growth and Unemployment Scenario in India: An Econometric Analysis" in International Conference on "Management Imperatives for Sustainable Growth-Transformation through Technology" organized by ICAI BUSINESS SCHOOL, GURGAON on 24 August 2019.

Ms. Khushboo Aggarwal presented a paper titled "Day of the Week Effect in BRICS Stock Markets" in the International Conference on "Recent Advances and Challenges in Finance and Marketing for New India @2022" organized by Department of Commerce, Mata Sundri College for Women, University of Delhi on 6 -7 September 2019.

Ms. Khushboo Aggarwal presented a paper titled "Calendar Anomalies in Indian Stock Market" and participated as a discussant too in the World Finance & Banking Symposium held on 19-21 December 2019 in New Delhi, India.

Dr. Varun Bhushan presented four research papers and was awarded with Best Paper Award for the paper titled "Quantifying the Demographic Dividend in India: A State Level Analysis of Health, Education and Employment" presented in the Conference on Emerging Trends in Management Practices 2019, organized by Rukmini Devi Institute of Advanced Studies. (The research paper got published in the conference proceedings)

Dr. Varun Bhushan presented a research paper titled "Demographic Dividend in India: Opportunities and Challenges" in the International Conference on Business and Management, Delhi School of Management, Delhi Technological University held on 29-30 March 2019.

Dr. Pardeep Singh presented paper on "The Pre-mature Demise of the Smartphones and its Implications in the Electronic Waste Menace" presented at Nordic science and technology studies conference 2019, Tampere", Finland

Dr. Pardeep Singh presented paper on "How E-waste is perceived in contemporary urban India: An in-depth Analysis of publics' understandings and awareness" Presented at: 7th international conference on sustainable solid waste management 2019 Greece

Dr. Pardeep Singh presented paper on "Indigenous and traditional knowledge systems for addressing key environmental and agricultural concerns": some experiences from India, presented at: 2nd International Conference "ADAPT to CLIMATE" 2019 Greece.

Ms. Anamikapresented a paper on "BRICS: Emerging as a Counter to Unipolarity" in international seminar on "Global Politics and Governance in 21st Century: Emerging Trends and Global Concerns" organized by department of Political Science, School of Ambedkar Studies, BBAU, Lucknow, March 2014.

Dr. Mithilesh Kumar Jha presented a Research paper alongwith Ms. Khushboo Aggarwal, Assistant Professor Department of Commerce also from our college titled "Growth and Unemployment Scenario in India: An Econometric Analysis" in the International Conference on "Management Imperatives for Sustainable Growth – Transformation through Technology" organized by ICAI BUSINESS SCHOOL, GURGAON on 24 August 2019.

Other Inter-Institutional Collaborations

The Internal Quality Assurance Cell of P.G.D.A.V. College entered in collaboration with the Teaching Learning Centre, Ramanujan College, to organize various faculty development programs, One Week Faculty Development Program on Accounting Standards held from 6 August 2019 till 12 August 2019.

Placement Details

More than 300 students grabbed placements in various reputed companies in varied profiles, including Assurance, Finance, Human Resource, Marketing, Research, Content Development, Technical and Sales. Some of the companies we are proud to have had on-board are McKinsey & Co., EY GDS, EY India, Deloitte, PwC, S&P Global, Tres Vista, FIS Global, Cvent, Wipro and Genpact. Our campus placements experienced a noteworthy increase in the average pay package offered from 3.05 LPA in 2018-19 to 4.6 LPA in 2019-20 with the highest package being 12.5 LPA (lakhs per annum)

Extension and Outreach Activities

N.S.S. unit to continuously strive for taking up various socially sensitive issues like women empowerment, child education, rural development and over all well-being of the society around us. Women Development Cell (WDC) 'प्रतिभाशक्ति' worked to change the life of women of the slums by making them self-reliant.

The volunteers of NSS sold the diyas made by the slum women under the initiative 'पहल, खुशियोंकी' and distributed the profits to them as their 'पहलीकमाई'. ASTITVA – The Child Education Wing on 5 September 2018, the NSS unit of PGDAV College initiated its new project “ASTITVA the child education wing”. By providing free education to underprivileged children, Astitva opened the door to take their vision of a better world to countless doorsteps. PWD Department of our NSS unit helps PwD student to make their assignments, to record audio lectures for them to get photocopies done, or helping them in submitting their paperwork in the office or seeing them off to their classrooms. Rural Development Department organized various cleanliness drives from time to time along with to clean the areas and spread awareness among everyone. Throughout the year cadets participated in various programs like “International Yoga Day”, “Flag Day”, “Youth Day”, “Water Conservation Day”, “Swachhta Mission ” etc with zeal and discipline. Cadets successfully performed Nukkhad Natak at India Gate and marked the ending of Swachhta Pakhwada 2019 in the renowned presence of Hon’ble Raksha Rajya Mantri, Shri Shripad Naik and Director General of NCC Lt. General Rajiv Chopra.

Library Development

A total of 1205 books worth Rs. 5, 51,342/- were purchased in the academic session 2019-2020. Currently, there are 100160 books and 4433 bound periodicals in the library. 69 magazines and 19 newspapers are regularly subscribed for the knowledge and reading pleasure of students and faculty alike. The library is fully computerized and is open on all working days from 9 am to 5 pm. Faculty and students have free access to both conventional as well as electronic resources like the e-resources of Delhi university Library System, N-list e-resources etc. Library expansion was done keeping in view the increase in resources and its users. Thus an additional Stack room and a computer lab are built to cater the need of the students and faculty members. Library Book Bank: The College provides needy and meritorious students with book bank facilities, and Students’ Aid Fund (SAF). Around 17 meritorious students have been provided 87 books for use over the year through the book bank. Library Services to Differently Abled Students: Devices and software like Braille software JAWS, ANGEL DAISY Reader, MP3 Recorder, Laptops, Zoom X Instant Text Reader, Lex Portable Camera etc are available for visually impaired students. It also provides access to Braille Library and sound recording facility in library itself. For this

purpose five computer stations have been established. It also subscribes to 'White Print', an English Braille magazine which is useful for visually impaired students.

Faculty Strength : Existing 157

Financial Allocation and Utilization:

Grant sanctioned in Rs. 33,62,16,744/-

Utilized in Rs. 33,62,16,744/-

The Annual Summer Internship Fair

The 2020 edition of Converge, powered by Evelyn Learning, was inaugurated by the director of PWC, CA Ankush Goyal. We saw a tremendous increase in the number of companies participating as well as the footfall in Converge'20. Some of our prominent recruiters including Rapido, Bajaj Finance, Decathlon, LIC, Outlook and AISEC. To ensure that no field goes unnoticed, 40+ profiles were offered in the fair including out of the box profiles like content writing, equity analyst, app development, human resources, subject matter expert. The Statistics of Converge'20 are as follows: 54 Companies and 40+ Profiles

P.G.D.A.V. COLLEGE (EVE.)

Major activities and achievements

Various programmes were held in the college this year to celebrate the 150th anniversary of Mahatma Gandhi and the Annual Cultural festival of P.G.D.A.V. College (Evening), 'Falak' was also celebrated with great enthusiasm on 27 and 28 February 2020. The theme for this year's festival was "एकभारतश्रेष्ठभारत". In this time of **pandemic**, the library of P.G.D.A.V. College (Evening) is providing its teaching, non-teaching and retired members with almost all the major English and Hindi newspapers and e-magazines through Whatsapp. The students of the college, around 2000 in number, are being sent with e-newspapers and e-magazines on their email ids by the library. All the members are being provided with e-links related to the subjects they are teaching to the students that were obtained from the Delhi University library system. The visually impaired students of the college have been provided with the DAISY software, free of cost, to aid them in their studies.

Honours/ Distinctions: (2019-20) Result awaited

Students with distinctions: Result awaited

Publications

Swadeshi, A.K., 2019, Madurai: Shanlax Publications, Importance of Multilingual Approaches to Language Learning in Schools in Recent and Changing Trends in Management, Economics, Commerce, Social Sciences and Humanities .

Swadeshi, A.K., A Critique of English Language Teaching-Learning at Government Schools in India with Reference to Rod Ellis's Principles of Instructed Second Language Learning in Emerging Trends in ELT (Kapil Nagar: Rudra Publications, 2020)

Swadeshi, A.K., Use of Woman Body as Landscape for Ideological Purposes in Roxane Gay's An Untamed State (Latur: Vishwa Bharati Research Centre, 2020).

Mishra, A. (2019). Guru Nanak Dev and Guru Dev Rabindranath Tagore. *Guru Nanak Dev : Philosophical Thought and Values: International Journal of Innovative Social Science & Humanities Research*, VI (IV), 100-102.

Shruti, VIP contributed an article on 'Reviewing Position of Women in Guru Nanak's Philosophy through a Contemporary Feminist Lens' in *IJISSHR*, special Issue, Volume-VI, Issue- IV, October-December 2019.

Sinha, B.K. Published an article on Social reformer of Kerala State "Mahatma Aayankali" by Sage Publication in an edited boon in 2020.

Sethi, P.K., et. al (2019) Comparison of Physically Active and inactive Males onbreathing variables: *International Journal of Physiology, Nutrition and Physical Education*; 4(2): 546-550.

Sethi, P.K., et. al (2020) Topography of personality Traits among University students pursuing different interests: *Journal of Sports Science and Nutrition*; 1(2): 29-31

Sethi, P.K., et. al (2020) A Comparative Study of Physical, Physiological and Psychological Profile of School Going Boys and Girls: *International Journal of Movement Education and Sports Sciences(IJMESS)*, 8, (1), 1-11.

Sethi, P.K., et. al (2020) A Broad Study on Menstrual Trend among School Girls: *International Journal of Movement Education and Sports Sciences IJMESS*, 8, (1)12-24.

Journals subscribed

Number of National journals subscribed (online + paperback version): 68

Research Projects -

Seminars Organized

A seminar was organized on the topic 'Essentials of Start-Up.' The main speaker invited on this occasion was Ms. Preeti Singhal who is the founder of 'Education Tree' and 'Orianda.' on 20 February 2020.

The Political Science society, in collaboration with Atal Bihari Foundation, organized a national seminar on the topic 'CAA: Facts and Myths on 10 January 2020.

A U.G.C sponsored two-day seminar on 'साहित्यऔरसत्ता' was organized on 21 and 22 October 2019.

Conference Organized

One week Faculty Development Programme on Communication skills and Teaching Techniques in Collaboration with ICT Academy from 26-31 August 2019.

National/International MoUs signed

Hero Moto Corp

ICT Academy

Mother Dairy

Guru Nanak Girls College, Santpura, Yamuna Nagar, Haryana

Delhi pollution Control Committee

M/S Innovative Power Solutions

Placement Details

Number of students getting successful placements:102

Number of Companies/Industries coming for campus recruitment: 14

Extension and Outreach activities

Number of camps organized in the surrounding areas: 1

Number of people enrolled/covered in the camps:26

Number of students who worked in the camps:23

Total number of hours dedicated to these camps:48

Library Development

Total Budget: Rs 6,30,000/-

No. of Books added: 481

Journals Subscribed to: 68

Number of faculty Permanent/ Temporary/ Ad-hoc

Permanent: 36+1 (Principal)

Temporary:None

Ad-hoc: 36

Financial Allocation and Utilization

Grant Sanction: Rs.26,45,27,000/-

Utilized: Rs.23,88,43,000/-

RAJDHANI COLLEGE

Major activities and achievements

Rajdhani College strives to excel in academics and extra-curricular activities and endeavours to upgrade its infrastructure to meet the requirements of the students, faculty members and non-teaching staff. The significant infrastructural improvements include a new Chemistry laboratory and commissioning of 80 KW solar plants. The Delhi government facilitated the opening of open gymnasium and badminton court in the sports ground. The students achieved excellent results in university exams and were equally participative in various co-curricular activities. Gandhi Study Circle won recognition and felicitation for the second consecutive year from the university. The Entrepreneurship Cell (E-Cell) organized a startup Incubation event with the top investors and also organized Sunburn event where the international artist Olly Esse

performed. Various departments including Chemistry, Commerce and History organized academic/industrial trips for students. Several talks were organized and significantly a National Seminar on ‘Mission 370 and Beyond: Contemporary Narratives of Jammu and Kashmir’, sponsored by ICSSR, co-hosted by United Professionals and Scholars for Action (UPSA) and Extension Lecture Series, Rajdhani College. Even during the pandemic, various online programmes were held.

Honours/ Distinctions

Rachna Sethi from the Department of English is the President of FORTELL (Forum for Teachers of English Language and Literature), an autonomous body of English professionals.

Chander Shekhar Singh from the Department of linguistics is an External Member in the Committee for Enhancement of National Fellowship for Higher Education, Jawahar Lal Nehru University, Centre for Linguistics, (SLL&CS).

Ved Mitra Shukla was honoured by Hindi Academy, Delhi (NCR, Delhi Govt.) under the scheme of *Prakashan Sahayog Yojana 2018-19*.

Ved Mitra Shukla was honoured with *Sewak Smriti ‘Sahityashri’ Samman-2019* by Shahityik Sangh (Est. 1940), Varanasi, Uttar Pradesh.

Anubha Anushree was honoured as a Distinguished Departmental Scholar, Department of History, Stanford University.

Divya Singh received Best Paper Award for paper titled, ‘An Emerging Novel Technology to Tune Resonances in Laser Plasma Interaction’ in the International Conference on ‘Advances in Smart Materials and Emerging Technologies’ (ASMET-2020), jointly organised by Research & Consultancy Wing, Department of Applied Sciences and Humanities & OSA Student Chapter of Indira Gandhi Technical University for Women, Kashmiri Gate New Delhi, India, 23-24 January 2020.

Divya Singh received ‘Environmental Protection Research Award’ by the executive committee of National Conference on ‘Recent Trends and New Frontiers in Biotechnology, Agriculture, Science and Environment NCRTFBASE-2020’.

Students with Distinctions

The college has constituted special awards and memorial prizes that are given to students with distinctions on the Annual Day but these could not be disbursed due the lockdown.

Publications

Umesh Kumar co-authored a research paper with Prof. Markus Riedle of King’s College London and titled ‘The Stochastic Cauchy Problem driven by a cylindrical Levy Process’ published in *Electronic Journal of Probability*, Volume 25 (2020), paper no. 10, first available online January 29, 2020.

S. K. Dhaka, Chetna, Vinay Kumar, Vivek Panwar, A. P. Dimri., Narendra Singh, Prabir K. Patra, Yutaka Matsumi, Masayuki Takigawa, Tomoki Nakayama, Kazuyo Yamaji, Mizuo Kajino, Prakhar Misra & Sachiko Hayashida published, ‘PM2.5 diminution and haze events over Delhi during the COVID-19 lockdown period: An interplay between the baseline pollution and meteorology’, *Nature, Scientific Report*, 2020, <https://doi.org/10.1038/s41598-020-70179-8>.

Vinod Prasad, Shalini Lumb Talwar, Sonia Lumb, G. Lefkidis and W. Hübner published ‘Persistent currents and induced magnetization in presence of external magnetic field and transition probabilities in

presence of combined laser pulse and external magnetic field for a confined hydrogen atom' in *Physics Letters A* 383, 125775, 2019.

Banty Kumar published a research article titled, 'Study of adsorption mechanism of chalcone derivatives on mild steel-sulfuric acid interface' in the *Journal of Molecular Liquids*, Volume 318, 15 November 2020, 113890.

Bansal, A., Kaushik, S., Ahmed, S., & Kukreti, S. published 'Autosomal dominant Polycystic Kidney Disease: A Review' in *Journal of Biomedical and Therapeutic Sciences*, 6(1), 15-23, 2019

Rachna Sethi published 'Out of Place Women: Exploring Gendered Spatiality in Delhi' in *Delhi: New Literatures of the Megacity* (Edited by Alex Tickell and Ruvani Ranasinha), London: Routledge.

Ved Mitra Shukla published translated book titled *Long Poems of Narendra Mohan*, New Delhi: Authors Press, 2019, ISBN 978-93-89110-48-7.

Yuimirin Kapai published 'William Pettigrew: Mythicizing the Man and His Works,' in *International Journal of Missionary Research*, Online First, March 21, 2019, <https://doi.org/10.1177/2396939319836882>

Divya Singh and H. K. Malik published, 'Magnetic field driven Terahertz radiation through wakefield excited by skew-chG lasers in collisional plasma' in *European Physics Letter* 127 (2019) 55001 ISSN 0295-5075. DOI: 10.1209/0295-5075/127/55001.

Mayur Taneja published a paper titled, 'Youth preferences for fast food industry: a conjoint approach' in the *International Journal of Public Sector Performance Management*, Vol. 6, No. 4, 2020 (Inderscience), Scopus and ABDC listed Journal.

Number of college teachers serving as Editor(s)/ Member(s) of Editorial Board: 3

Seminars organized

AnICSSR sponsored National Seminar on 'Mission 370 and Beyond: Contemporary Narratives of Jammu and Kashmir' was organized on 6-7 February 2020 by Dr. Suman Kumar. It was sponsored by ICSSR, and co-hosted by United Professionals and Scholars for Action (UPSA) and Extension Lecture Series, Rajdhani College

Lecture series called 'Young Researchers in Social Science Academia' were organized by History department

Lecture series was organized by Department of English

Research Affairs Committee organized a seminar and interactive session on 'Role of Sex Education in Prevention of Sexual Crimes against Women' on 10 February 2020.

Webinar on 'Avi-Fauna: Ecology and Diversity' was organized by committee of Environment and Related Issues.

Conferences Organized

The covid situation and the resultant lockdown led to calling off of some academic events. However the departments and committees continued to hold webinars and online programmes.

Seminar/ Conference Presentations

Sunil Babu presented a research paper on 'The Socio-economic Progress of Women' in a three-day World Conference at Warsaw University of Life Sciences, Warsaw, Poland, Europe, 10-12 October 2019.

Divya Singh presented a poster titled, 'Evolution of Plasma Wave Oscillations in Terahertz Frequency Regime in the wake of Ultrashort Laser Irradiation on Air Plasma' at the 5th International Conference on 'Current developments in Atomic, Molecular, optical and Nano Physics with Applications-(CDAMOP-2019)' held at Delhi Technological University, Delhi, India, 18-20 December 2019.

Ved Mitra Shukla presented research paper titled 'Satyagraha against the Patriarchy: Rereading some Love Poems of Mirabai' in International Webinar on 'The Politics of Women's Writing' organised by Department of English, Bharati College, University of Delhi, Delhi, India, 26-27 May 2020.

Ved Mitra Shukla presented research paper titled 'Feminism with Diasporic Sensibility: Rereading Jhumpa Lahri's *Hell and Heaven and Other Stories*' in National Seminar on 'Impact of Women Empowerment on English Literature' organised by Jhunjhunwala PG College, Dr. Rammanohar Lohia Awadh University, Dwarikapuri, Ayodhya, Uttar Pradesh, India, 13 September 2019.

D. Singh and H. K. Malik presented, 'Terahertz Radiation Sources Based on Laser Plasma Interaction' at the International Conference on 'Photonics, Metamaterials & Plasmonics' organised by the Department of Physics and Materials Science & Engineering Jaypee Institute of Information Technology, Noida, India, 14-16 February 2020.

Anubha Anushree presented 'The Corrupt Colony: State and Sovereignty in East India's Economic Discourse', at the International Conference on 'Economic and Business History' in memory of Professor Dwijendra Nath Tripathi, IIM, Ahmedabad, 29-31 August 2019.

Yuimirin Kapai presented a paper titled 'Scripting the Self and Modernity in the Biographies of the Tribal in Manipur,' at the National Tribal Conference-2019 at Raipur, Jharkhand, 23-24 August 2019.

Sasmita Mohanty presented a paper, 'Situating Indian Diaspora amidst Covid-19 in Zimbabwe and Zambia: Challenges and Opportunities' under the theme, 'African Countries with Indian Diaspora under Covid-19: Diverse Experiences of Anglophone, Francophone, Lusophone and Arabic Africa' in the 6th ODI Young Scholar Diaspora Conference on 'Impact of Covid-19 on diverse Indian Diasporas in Africa: Role, Challenges and Experiences and Emerging Research Agenda', jointly organised by Centre for African Studies (CAS), SIS, JNU and Centre for Diaspora Studies, Central University of Gujarat (CUG) in collaboration with Organisation for Diaspora Initiatives (ODI India), 27 June 2020.

Asheesh Kumar presented a paper titled, 'The Concept of Nirvāṇa in Vedānta and Buddhism at the Ven. Prof. Walpola Rahula Thera Memorial International Conference on 'Dissemination of Buddhism in the Globalized World' at the Buddhist and Pali University of Sri Lanka, Homagama, 7 August 2019.

Sonia Bhandari presented a paper titled, 'Ferroelectric, piezoelectric and microhardness studies of flux grown lead-free alkali based Mn-modified (1-y) (Na_{0.5}Bi_{0.5}) TiO₃ - y(K_{0.5}Bi_{0.5}) TiO₃ single crystals for optoelectronic applications' in International Conference on 'Advances in Smart Materials and Emerging Technologies (ASMET - 2020)' held at Indira Gandhi Technical University for Women, Delhi-110006, 23-24 January 2020.

Other Inter- Institutional Collaboration

The Department of Commerce in collaboration with the Department of Commerce, Delhi School of Economics, University of Delhi (under the aegis of Department-College Interface) held Workshops on

‘Financial Accounting’, ‘Business Laws’ and ‘Revisiting Commerce Education’ on 10 August, 26 August and 11 November 2019 respectively. Mathematical Society organised a one-day workshop on ‘Machine learning with Python’ in collaboration with CETPA. NCC and NSS units of the college organized a one-day sanitization programme based on ‘Drug Abuse Preservation’ at the college in collaboration with Atma Ram Sanatan Dharma College and National Institute of Social Defence (Ministry of Social Justice and Employment) on 5 March 2020. Chaitanya, the Debating Society of the college organized two workshops for the aspiring orators. The first one was done in collaboration with Dictum-the debating society of Shivaji College, on 19 September 2019 where they enlightened the students about the technicalities of Parliamentary style of debate. The second workshop was conducted by the team of Rhetorque-the debating society of Janki Devi Memorial College on 14 October 2019 where they very efficiently explained every detail of the Parliamentary (English) style of debate.

Placement details

Number of Students: 30%

Number of Companies visited for campus recruitment: 120+

Extension and Outreach work

Chemphilic Society organised a two-day Lecture Series and its Annual Fest, Chemotsav2K20 on 27 and 28 February 2020. The speaker for the first day was Dr. Ram Kishan, Examiner of Patent and Design, Ministry of Commerce and Industry, Government of India, Dwarka, New Delhi. The second day had Dr. Monalisa Mukherjee who is Director of Amity Institute of Click Chemistry Research and Studies, Amity University as speaker. Neutronics Society arranged a workshop and lecture on 6 August 2019 by Shrey Ansh, a researcher from National Space Science and Technology, University of Alabama, USA.

Neutronics Society invited Dr. Arun Bhardwaj (Scientist at SAC, ISRO; now in office of PSA, GOI) the fifth Dr. Sanjay Malik Memorial Lecture on 9 February 2020. Industrial visit to Mother Dairy Plant, Patparganj was organised on 21 October 2019 by the Department of Commerce. Women Development Cell organized a talk on 4 October 2019 in which the distinguished speakers of the programme were Ms. Swati Maliwal, Chairperson, DCW and Dr A. K. Arun, Homeopathic doctor & social activist. Yuva, the Social Welfare and Youth Development Society as part of its Feed the Needy (Donation Drive) came to the rescue of some migrant workers during lockdown. An online donation drive was conducted and managed to collect and donate up to 7000 rupees to a few migrants who were stuck in Delhi. Women Development Cell organized a play ‘Walk Like A Woman’ produced by Asia Foundation in collaboration with Rahi theatre, Mumbai on 25 September 2019. Women Development Cell organized a four-day programme on International Women’s Day which was graced by social activist Ms. Medha Patkar and Dr. Nivedita Manon, a pioneer research scholar and Professor, Jawahar Lal Nehru University. On 29 August 2019 students of NSS, Rajdhani College, participated in Fit India Movement Launch Event at Indira Gandhi Stadium, New Delhi. On 9 September 2019 NSS volunteers visited Deep Blind Foundation and helped the foundation in successfully carrying out the events for blind people and providing scholarships to the specially-abled friends. 13-17 January 2020, as part of the ‘Winter Cloth Collection Drive’ of the NSS, students stood to serve the needy by donating winter clothes in Punjabi Bagh Slum. On the occasion of Gandhi Jayanti, Enactus Rajdhani organised a slum visit to Lalbagh Slum, the Biggest Slum of Delhi to understand the challenges faced by the inhabitants and find the solutions to some of their problems. Members of Gandhi Study Circle participated in a two-day ‘Samta Samskar Shivir’ organised at Gandhi Smarak Nidhi on 18-19 November 2019. In the unprecedented situation of Covid-19, the NCC cadets worked hard to distribute food, masks, sanitizers and various other things to the needy. From 8 August to 15 August 2019, NSS Rajdhani, under ‘Swatchhatta-Pakhwada Abhiyaan’ conducted a waste paper recycling drive in two phases. In the first phase the 832 kg of waste paper was collected from all the staff members and office, and with the help of JAAGRUTI

foundation paper recycling services, waste paper was converted or recycled to notepads for the students and staff members.

Library Development

The library is a member of N-List Programme of UGC INFLIBNET, through which library users can access more than 31, 50000+e-books and 6000+ e-journals any time anywhere using login ID and password provided by the library. Library provides high speed internet facility, printers and subscription to e-journals that are intended to meet and exceed the expectations of the current Net-generation. Library has more than one lakh scholarly books on various subjects and subscribes 36 newspapers and around 60 magazines and research journals. Library has also started newspaper clipping service focusing on the higher education. Every year, the Library organises a Book Exhibition in the college campus inviting renowned publishers to offer books on various subjects to students and faculty members.

Faculty Sanctioned Strength: 178+1 (Sanctioned)

Actual Strength of Faculty: 90 permanent, 69 Adhoc includes those who are appointed against leave vacancy.

Financial Allocation and Utilizations:

Grant sanctioned in Rs: 35,21,60,000 + 40,00,000

Utilized in Rs: 35,21,60,000 + 40,00,000

Other significant information

The college initiated new societies like 'Dadhichi Pratiyogi Samiti' and 'Quest, the Quiz Society' to engage the students in relevant discussions and to prepare them for various exams and to enhance their knowledge. Rajdhani College Alumni Association has been the USP of the college and has been serving as a platform where alumni and present students get an opportunity to interact with each other to share their experiences and provide guidance for future prospects. The Open Sessions organized by Chaitanya, the Debating Society offers a space to the students where they can freely share their about current topics. Various Committees and Societies i.e. Cultural Committee, Debating Society, Equal Opportunity Cell, Gandhi Study Circle, Placement Cell, NCC, NSS, North East Students' Welfare Committee, SC/ST Counselling Cell, Environment and Related Issues Committee, Trekking & Mountaineering Club, Photography Club, Social Welfare and Youth Development Society, Quest, the Quiz Society, Dadhichi Pratiyogi Samiti, Rangat, the Fine Arts Society, Kavyanjali, Dr. B. R. Ambedkar Study Circle, Extension Lecture Series, Entrepreneurship Cell, Enactus, Women Development Cell and Yoga & Meditation Committee ensure the multi-faceted development of our students and inspire them to become better human beings, sensible and responsible citizens and efficient professionals in future.

RAJKUMARI AMRIT KAUR COLLEGE OF NURSING

Major activities and achievements.

Rajkumari Amrit Kaur College of Nursing has been providing quality nursing education for the for the last 75 year. The College offers four regular Programmes i.e. B.Sc.(H) Nursing, M.Sc. Nursing, M.Phil and PhD in Nursing. The revised curriculum for both B.Sc.(H) Nursing and M.Sc. Nursing under semester system is running successfully. The College has a Rural Teaching Centre at Chhawla village under RHTC Najafgarh for the purpose of providing objective oriented community health experience.

Honours/Distinctions

The college was nominated by Ministry of Health and Family Welfare for the preparation of 'Provider Course Book for Nurses' on 'Material on Emergency Life Support'

Research Project

A Study to Develop and Evaluate the Effectiveness of Structured Educational Program on Pre-Merital Counselling in Terms of Knowledge and Attitude among College Students of Selected Bachelor of Education College of Sonapat, Haryana.

A Study to Assess the Effectiveness of Planned Teaching Program regarding "Home Care Management after Permanent Pacemaker Implantation" in Terms of Knowledge and Practice among Cardiac Patients in G.B. Pant Hospital, Delhi.

A Study to Evaluate the Effectiveness of Structured Teaching Program on Prevention and Management of Road Rage and Road Traffic Accident in Terms of Knowledge and Attitude among Adolescent Students of High Secondary School in Selected Rural Area of (Alwar) Rajasthan.

A Study to Evaluate the Effectiveness of Educational Package on Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS) in Terms of Knowledge and Practice of Nursing Officers in Selected Hospital of Delhi.

A Study to Assess the Prevalence of Non-Communicable Disease Risks Factors with a View to Develop and Evaluate the Effectiveness of Health Care Package on Prevention of Selected Non-Communicable Disease in Terms of Knowledge and Practice among College Students of Chittoor, Andhra Pradesh.

Seminar Organised:

A Seminar organised on the topic of work life balance by Bhram Kumari Organization.

Conference Organised

The College organized a National conferences entitled "Emergency nursing: an upcoming change" during 3 February to 7 February 2020.

The College organized a National conferences entitled "Universal coverage " during 24 February to 28 February 2020.

Seminar/Conference Presentations

Dr.(Mrs.) Harindarjeet Goyal participated in a Panel Discussion on advance technology in delivering Universal health coverage.

Dr.(Mrs.) S. Rastogi participated in Panel discussion entitled "Nurses role in attaining Universal health coverage" and "Obstetrical emergencies".

Library development

The College Library has total 21442 Books. It also subscribes to 18 Foreign Journals and 10 Indian Journals besides having 06 newspapers and 07 magazines, while incurring a total expenditure of Rs. 19,57,277.

Faculty Strength

Total No: 30

Financial Allocation and Utilization

The Budget Provision for the 2019-2020 was Rs. 13,46,00,000/- (Rupees Thirteen Crore Forty Six Lakh only) under Major Head 2210 and Rs. 30,39,00,000 under Major Head 4210 (Capital).

RAMANUJAN COLLEGE

Major Activities and Achievements

Ramanujan College has signed MOUs with MCI Management Center Innsbruck, Austria and Western Sydney University, Australia. The College has an MOU with the Media & Entertainment Skills Council of India for resource and industry support for the launching of vocational and Honours courses in media studies, film animation and computer graphics. The college has also signed MOUs many colleges of DU and other universities of India for conducting collaborative Faculty Development Programmes. Sixteen programmes (FDPs/Faculty Induction Programmes/Workshops) have been conducted by Teaching Learning Centre (TLC), Ramanujan College under the Pandit Mandan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), sponsored by the MHRD from April 2019 to March 2020 and trained 772 participants. Besides conducting internal audits of its teaching and non-teaching staff regularly, this year IQAC of the college conducted an external audit of the teaching and non-teaching staff of the college. The IQAC and the TLC of the college conducted a week-long FDP exclusively for the teachers of the college on 'Teachers, Teaching and Taught: Discovering New Meanings, Relationship and Purpose' during 1 to 7 January 2020.

Honours/ Distinctions

Dr. S. P. Aggarwal, Principal received the Award of the 50 Most Influential Principals (Education) of India by World Federation of Academic Cooperation, World Education Congress in July, 2019.

Dr. Alok Ranjan Pandey, Department of Hindi, was felicitated with the 'Tilka Manjhi Rashtriya Samman 2019' in the field of Education at Bhagalpur, Bihar.

Uday Pratap Gangwar, Aman and Laxman Singh Pokhariya all students of B.Sc. (H) Mathematics, 2nd year received the prestigious Inspire Scholarship (Rs. 80,000 per year) for students of batch 2018 offered by Department of Science and Technology, Ministry of Science and Technology, Government of India.

Publications

Agarwal, A., Aggarwal, S. P., & Gupta, S. (2019). Sustainable earnings: a new eye for emerging finance. *Journal of Sustainable Finance & Investment*, 9(4), 325-348.

Agarwal, A., & Dev, A. (2020). A Multi-Layer Data Driven Clustering Based Protocol for Sensor Networks. *International Journal of Scientific & Technology Research*, 9(3), 5092-5096.

Cho, N. E., Kumar, V., Kwon, O. S., & Sim, Y. J. (2019). Coefficient bounds for certain subclasses of starlike functions. *Journal of Inequalities and Applications*, 2019(1), 1-13.

Dharra, R., Radhakrishnan, V. S., Prasad, T., Thakur, Z., Cirillo, J. D., Sheoran, A., Pandey, A. K., Kulharia, M., & Mehta, P. K. (2019). Evaluation of in silico designed inhibitors targeting Melf (Rv1936) against Mycobacterium marinum within macrophages. *Scientific reports*, 9(1), 1-11.

Dahiya, B., Khan, A., Mor, P., Kamra, E., Singh, N., Gupta, K. B., Sheoran, A., Sreenivas, V., & Mehta, P. K. (2019). Detection of Mycobacterium tuberculosis lipoarabinomannan and CFP-10 (Rv3874) from urinary extracellular vesicles of tuberculosis patients by immuno-PCR. *Pathogens and disease*, 77(5), ftz049.

Kumar, S., Kumar, R., Kumar, S., & Kumar, S. (2019). Cryptographic construction using coupled map lattice as a diffusion model to enhanced security. *Journal of Information Security and Applications*, 46, 70-83.

Kumar, V., Cho, N. E., Ravichandran, V., & Srivastava, H. M. (2019). Sharp coefficient bounds for starlike functions associated with the Bell numbers. *Mathematica Slovaca*, 69(5), 1053-1064.

Gupta, P., Agarwal, M., & Singh, R. (2020). On graphoidal length of a tree in terms of its diameter. *AKCE International Journal of Graphs and Combinatorics*, 1-5.

Rajput, N. K. (2019). Gillespie algorithm and diffusion approximation based on Monte Carlo simulation for innovation diffusion: A comparative study. *Monte Carlo Methods and Applications*, 25(3), 209-215.

Sinha, D., & Sharma, D. (2019). Square Signed Graph. *National Academy Science Letters*, 42(6), 513-518.

Journals

Published by the college: 4th edition of its “Ramanujan International Journal of Business and Research.” (ISSN: 2455-5959)

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 10

Research Projects

Completed Five University of Delhi sponsored three-year star innovation projects (Total Grant Sanctioned: Rs. 87,50,000). The list is as follows:

A Study of Lifestyle and Health (physical and mental) related problems among adolescents;

Taking the work of Ramanujan to the next level: An innovation project in Cryptography;

Robotics in Healthcare;

Reliable data of real world for innovation;

Sociovation

Patents Filed/ Granted

Patent filed by Mr. Vipin Kumar Rathi (Assistant Professor, Department of Computer Science) on Blockchain Defined Multi-Domain Orchestrator - Application no - 201811039422 filed on 17/10/2018.

Conferences Organized

Organized the first International conference on Applicable Mathematics (ICAM) with the theme Network Science during 19 to 21 December 2019. Funding agencies: University Grants Commission (UGC) and Science and Engineering Research Board (SERB).

Organized a two-day National Conference on “Emerging Trends in Statistics and Data Science (ETSDDS-2019)” during 06th-07th Sept 2019. Funding agencies: UGC.

Seminar/Conference Presentations

Anjali Prashad presented a paper entitled “*Fiscal Sustainability of States in India: Evidence of Fiscal Fatigue*” at the Special Lecture organized by Centre for Economic Research, Department of Economics, St Stephen’s College, Delhi, India on 15th February 2019.

Ajay Kumar presented a paper titled “Philosophical Interpretation of the Preamble of the Indian Constitution” in Second Dalit Literature Festival, organised by Ambedkarwaadi Lekhak Sangh (ALES), at Kirorimal College, University of Delhi on 16-17 February 2020.

Alok Ranjan Pandey presented a research Paper entitled ‘*Vartaman Sandarbh me Kabirka Kavya*’ in the UGC Sponsored Two Day National Seminar on the theme of ‘Kabir and Bhakti Movement’ held at the Atma Ram Sanatam Dharma College, New Delhi during 19-20 September, 2019.

Isha Gangwani presented a paper titled “Trade and Gender - Do they matter to each other?” on 8th September 2019 at the World Congress on Women organized by the Indian Institute of Science, Bangalore.

Parul Saini presented a paper titled “An Overview of Success of CSR Initiatives in India- A Study of Selected Companies” in First International Conference on “Corporate Governance: Issues, Challenges and Changing Paradigms” organised by Global Research Foundation for Corporate Governance on September 7-8, 2019 at India International Centre, New Delhi.

Sachin Tomer and Ashish Kumar Shukla presented paper online entitled ‘Classical and Bayesian Inferences for Mixture Model under Censoring Scheme’ at MTMI International Conference on Globalization and Competitiveness in Business and Technology at Avanti Palms Resort and Conference Center, Orlando, Florida, USA during September 20-22, 2019.

Birjesh Kumar presented online paper entitled “A study on Sensitivity Analysis of Sequential Normal Testing Procedure” in 2019 MTMI International Conference, at Avanti palms resort and conference center at Orlando Florida, USA during September 20-22, 2019.

Sooraj K. Maurya presented a research paper entitled “Evaluating Leslie Pickering Francis’ Arguments of Affirmative Action” in National Seminar of “Darshan Parishad or Uttar Bharat Darshan Parishad” at the Department of Philosophy, University of Allahabad, during 5 - 6 May, 2019.

Sumit Nagpal presented a paper entitled “A survey on coefficient estimates for Caratheodory functions” in the national conference Advances in Mathematical Analysis and Its Applications at PGDAV College, University of Delhi, New Delhi held during 8-10 November 2019.

Virendra Kumar presented a paper entitled “Some techniques of construction univalent harmonic mappings” in SERB-DST Sponsored National Conference on “Advances in Mathematical Analysis and its Applications (NCAMAA-2019)” organized by the Department of Mathematics, PGDAV College, University of Delhi during November 8-10, 2019.

National/ International MoUs Signed

MoU signed with MCI Management Center Innsbruck, Austria for a period of five years for cooperation in teaching, academic research & operations.

MoU signed with Western Sydney University, Australia for joint activities which include development of collaborative research projects, organization of joint academic and scientific activities, exchange of academics for research etc.

MOU signed with the Media & Entertainment Skills Council of India for resource and industry support for the launching of vocational and Hons courses in media studies, film animation and computer graphics.

The Teaching Learning Centre, Ramanujan College has signed MOUs with a number of colleges from the University of Delhi and other institutions of India viz., Indira Gandhi National Centre for Arts, IQAC - PGDAV College, Sri Venkateswara College, and ARSD College for conducting collaborative Faculty Development Programmes.

MOU signed with WWF-India for its youth engagement programme ECHO under WWF Volunteers' that aims to create Environment Conservation Heroes.

Other Inter - Institutional Collaborations

In collaboration with the National Museum of Natural History, the NSS organized Plantation Drive, on 4 July 2019 on the occasion of *Van Mohatsav* week

In collaboration with the NGO - Kind Beings, the Women Development Cell organized a Sanitary pads donation drive in the college premises on 26-27 February 2020.

In collaboration with Indian Red Cross Society and Bharat Vikas Parishad, the NSS organised a blood donation camp in College premises on 25 July 2019.

In collaboration with Datri Foundation an awareness programme for *Blood Stem Cell Donations* was organised,, on 17 September, 2019.

In collaboration with the Delhi Health Department, the Women Development Cell organized an awareness seminar on anemia and diarrhea on 14 October 2019.

In collaboration with the NGO – Poshac India Foundation a two-day workshop on *Campus2Career* was organised by NSS on 4 - 5 November 2019.

In collaboration with D. M. Acupressure Association, an awareness seminar on acupressure was organized by NSS, on 21 January 2020.

In collaboration with Hero Motors Corporation, a Seminar on Road Safety was also organised, on 24 February 2020.

In collaboration with The Mental Health Foundation (India), the English Literary Society organised a 'Letter Writing Event', on September 30, 2019.

In collaboration with Rotaract club; Ingenious Minds the college celebrated Women's Day (07 March 2020).

Students under Exchange Programme

Two Student Exchange Agreements entered with the MCI Management Center Innsbruck, Austria and Western Sydney University, Australia.

Placement Details

Number of Students Placed: 221 (placement) + 132 (internship)

Number of Companies visited for campus recruitment: 57 companies.

Extension and Outreach Activities

An Outreach Programme "CEFA: Computer Education for All" was organized from 15 October 2019 to 14 November 2019 in association with NGO: Kind Beings.

Conducted an outreach program 'Invocation' on 9 October 2019 in Government Girls Senior Secondary School, Badarpur.

An event organised with the children from Prayas Juvenile Aid Centre for Girls on 23 October 2019 to celebrate Diwali.

The National Outreach Programme of the College and *Pathshaala- Ek Kadam Saksharta Ki Ore*, an initiative of Centre of Social Innovation, Ramnanujan College organized various events in collaboration with different agencies.

Organised Swachh Bharat Abhiyan Rally in the C.R Park residential area on 21 September 2019.

Library Development

New Library space has been created near the new building with an air-conditioned and Wi-fi enabled reading lounge for teachers and students. Library stack hall has been augmented for enhanced storage capacity.

Upgraded the library automation package with open source international library software KOHA and OPAC with advanced search facility.

Modern web-based systems delivery and discovery provisions of E-resources (N-List of INFLIBNET and DELNET).

The Library Staff has been sent to specific training programmes to augment their efficiency.

Faculty Strength: 120

Other Significant Information

A 6-month course in happiness was launched by School of Happiness, Ramanujan College wherein Happiness classes were held 3 days every week from 8:00 to 9:00 am.

To commemorate the 132nd birth anniversary of Srinivasa Ramanujan and the Foundation Day of the College, the 7th Annual Ramanujan Memorial Lecture was delivered by eminent Mathematician Prof. S. Arumugam on 22 December 2019.

The Centre for Human Rights Studies, Ramanujan College concluded its Seventh Session (December 2019 – May 2020) of the three-month Certificate Course on Human Rights in which a total of 22 students from various disciplines and colleges of the University of Delhi, Jamia Millia Islamia, IGNOU and DU-SOL, along with professionals enrolled.

RAMJAS COLLEGE

Major Activities and Achievements:

Ramjas College, with an admirable legacy, has become one of the centers of excellence in India. Ever since its inception in 1917, the college is committed to impart best quality education to the students regardless of their socio-economic background. The teachers have been playing a pivotal role in the overall development of students including values based education towards gender equality, social responsibilities as well as

professional ethics. Eventually, students and teachers have made remarkable contribution in different fields. The students have made us proud not only by bringing laurels in studies but also in sports and extra-curricular activities. In the academic year, 2019-2020, a series of talks, conferences, workshops and seminars were held by different departments imparting knowledge to thousands of students and teachers from diverse fields, despite the Covid-19 pandemic towards the end.

Honours/Distinctions

Dr. Suresh Kumar received the Outstanding Educationist Award in 2019 at the 4th International Conference on 'Innovative Approaches in Applied Sciences and Technologies', 25-29 June 2019 at Mahsa University, Kuala Lumpur, Malaysia.

Dr. Hardeep Kaur received the best oral presentation award for 'Heterocyclic Quinazolinone and Quinazoline Derivatives as Potent Antifungal Agents' at International Conference on Natural Products and Human Health, organized by the Department of Zoology, Deshbandhu College, University of Delhi during 27-29 February 2020.

Students with Distinctions

Vaibhav Pandey topped the University examinations for the 2016 – 19 batch in B. Sc (Honours) Mathematics

Krity Karn topped the University examinations for the 2016 – 19 batch in B. Sc (Honours) Statistics

Sapna topped the University examinations for the 2016 – 19 batch in B. Sc. Physical Sciences

Gunendra Arya topped the University examinations for the 2017 – 19 batch in M. A. Sanskrit

Geetika Bhardwaj topped the University examinations for the 2017 – 19 batch in M. Sc. Statistics

Publications

Chaudhry B., Kumar, S., Tiku, A. and Maity, P.J. (2019). Micropropagation of a Medicinally Important Plant, *Bacopa monnieri*: *Medicinal Plants*, 11(2), 117-122.

Deo, V., Chetiya, A.R. and Deka, B.(2019). Forecasting Transmission Dynamics of Covid-19 in India Under Containment Measures- A time- dependent State-Space SIR Approach: *Statistics and Applications*, 18(1B), 157-180.

Dwivedi, P. (2019). Recent progress in the sensing techniques for the detection of human thyroid stimulating hormone: *Trends in Analytical Chemistry*, 118, 666-676.

Kathuria, A. (2019). Green Chemistry for Organic Synthesis: *International Journal of Research and Analytical Reviews*, 6, 146-154.

Neelima and Siska, D. (2020). Coercivity condition for higher order moments of nonlinear SPDEs and existence of solution under local monotonicity: *Stochastics*, 92(5): 684-715.

Pushkarna, N.(2019). Mid-Truncated Burr XII Distribution and its applications in order statistics: *Statistics, Optimization and Information Computing*, 7: 171-191.

Singh, A. (2019). Oxidative Stress: Role and Response of Short Guanine Tracts at Genomics Locations: *International Journal of Molecular Sciences*, 20 (17), 4258-4276.

Sharma Virender, Singh S. K. and Sahu, S. (2020). On Frames In Finite Dimensional Quaternionic Hilbert Space: *Palestine Journal of Mathematics*, 9(1), 511-522.

Kumar, S. (2019). *Ethnobotany* Volume 2. Kojo Press, New Delhi: ISBN: 978-81-933805-5-0.

Chakravorty, M. (2019). *Yoga and stress* Management. New Delhi: Friends publication.

Journals

Published by College: Ramjas Journal of Economics

Research Projects

DBT Star College Project sponsored by Department of Biotechnology, Government of India. Co-ordinator Dr. Sukanya Lal. Amount 46 Lakhs.

DBT Project entitled “Remediation and Reclamation of Hexachlorocyclohexane (HCH) dumpsite by using Microbial Bioremediation Technology” funded by Department of Biotechnology, Government of India. P-I: Dr. Charu Dogra Rawat, Co-PI: Dr. Sukanya Lal. Amount Rs. 10,43,168.

Seminars Organized

Prof. Firoz Khan, The political economy of corruption: towards a new common sense, 19 August 2020.

Professor Anuradha Chowdhary, Department of Mycology, Vallabhai Patel Chest Institute, University of Delhi, Fungal Human Pathogens, 2 September 2019.

Amitav Ghosh, delivered the 4th A. K. Ramanujan Lecture, The Coming of Storm: Story-telling and the planetary crisis, 16 January 2020.

Mr. Gautam Majumdar, Senior Consultant, Towers Watson, Institute and Faculty of Actuaries, U.K., Career- Building- Busting Actuarial Myths, 22 January 2020.

Prof. R.K. Sharma, IIT, Delhi, Applications of Cryptography, 20 February 2020.

Conferences Organized

Organised a Workshop on Creating Awareness on Intellectual Property in association with CII and IPO on 4 September 2019.

Organised a National Seminar on Recent Trends of Research in Medicinal Botany during 4-5 October, 2019.

Seminar/Conference Presentations

Dr. Ruchika Verma delivered a talk entitled “K Operator Frames” at Mexican- Indian Research Seminar, Mexico City, Mexico on 4 July 2019.

Dr. Charu Dogra Rawat delivered an Invited Talks entitled “Live Video Lecturing- Opportunities and challenges and Tools for E- content development” at National Faculty Development Program on MOOCS and E- content Development, Delhi, on 15 July 2019.

Dr. Suresh Kumar delivered an Invited talk entitled “Ethnobotany- A tool for Drug Discovery” at ASEAN-India Training Workshop, CSIR- IGIB, New Delhi, India during 20 - 28 September 2019.

Dr. Vishal Deo had an oral presentation entitled “Evaluating Quality Adjusted life years using proxy utility function and joint modeling of longitudinal and Weibull accelerated failure time models” at IISA Conference, IIT Bombay, 27-30 December, 2019.

Dr. Charu Dogra Rawat delivered an Invited talk entitled “*Tessaracoccus flavus* a potential polyphosphate accumulating organism at Southeast Asian Regional Symposium on Microbial Ecology” in SARSME-2020 Pokhara, Nepal, on 14 February 2020.

Dr. Mayanglambam Ojit Kumar Singh delivered a talk entitled “Ozone and Pollinators: A view from sustainability examining Fundamental Issues” on 16 September 2019 at World Ozone Day Celebration at Hansraj College, University of Delhi.

Dr. Hemant Rajor delivered an Invited Talk entitled “Ruthenium complexes as water oxidation catalysts” in National Symposium on Biophysics (BIOPHYSIK A-2019), Jamia Milia Islamia, New Delhi on 4 October 2019.

Dr. Poonam Dwivedi presented a talk entitled “Catalytic Degradation of Azo Dyes using Silver Nanoparticles synthesized by green methods” at National Conference on Emerging Trends and Future Challenges in Chemical Sciences (ETFC-2020), Kirori Mal College, University of Delhi during 10-11 January, 2020.

Dr. Ruchika Verma delivered a talk entitled “Block Operator Frames” in the Sixth International Conference on Mathematics and its Applications (6CIMA) held during 2–6 September 2019 at the School of Physics and Mathematics, BUAP, Mexico.

Other Inter-Institutional Collaboration

Dr. Charu Dogra Rawat participated in China Innovation tour for Indian Young Scientists, to interact with scientists/ scholars of Chinese Universities for development/ strengthening of Science and Technology relationship between India and China during 22-29 September, 2019.

Placement Details:

Number and Percentage of Students Placed: 94 (increase of 118% over the previous year)

Number of Companies/Industries visited for Campus Recruitment: 41

Library Development

1995 books were added to the Library collection. The library also subscribed 160809 e-books from NLIST and 6293 e-journals.

Faculty Strength

Permanent Faculty: 90, Temporary Faculty: 01, Ad-hoc Faculty: 133

Financial Allocation and Utilization

Grant sanctioned in Rs. : Rs. 80 crores(Approx.)

Utilized in Rs. : Rs. 71 crores (Approx.) Subject to Audit

Other Significant Information:

Shekhar Sehgal (nee Shikha Khanna) - A Ph.D. student of Dr. Narinder Pushkarna has submitted her PhD thesis (with co-supervisor Prof. Jagdish Saran) entitled 'Some contributions to Moments of Ordered Statistics and Associated Inference'.

RAM LAL ANAND COLLEGE**Major activities and achievements**

The department of Microbiology has been selected under "Star College Scheme" for financial support (25 lacs) by the Department of Biotechnology (DBT), Government of India for three years. In addition, four research projects of Rs 2.48 Crores received by the faculty from NMHS (Ministry of Environment, Energy and Climate), ICMR and ICSSR. Two projects of Rs 90 lakhs from ICMR got technical approval. Two research projects from DBT and ICSSR successfully completed. In its efforts to further augment the research activities at undergraduate level and to promote research culture and generate preliminary data for writing proposals to GOI funding agencies, the college introduced a new scheme called "College Research Grant". Under the scheme, a total amount of Rs 2,85,000/- has been disbursed for 7 In- house research projects to faculty and students. An Institutional Academic Integrity Panel was constituted this year to conform to the UGC (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018 and to strengthen the college's resolve to follow professional ethics and academic integrity. In this session, faculty has published 36 research articles in highly reputed and peer reviewed journals, and 15 books/book chapters. Faculty members have presented 16 papers in various international and national conferences/seminars. 10 faculty members were recognised for their commendable services in academics/other activities. The college has successfully submitted the Annual Quality Assurance report (AQAR) 18-19 on 1 February 2020 on NAAC portal. Shri Daya Prakash Sinha, Chairman, Governing Body conferred Padma Shri Award 2020 under Arts and Culture Category by Government of India for his illustrious contribution for decades to the field of Hindi theatre. Evam Jansanchar for securing I position in University Examination. In Extracurricular/sports/NCC intercollege activities, our students have won 114 medals/prizes. This year 298 Coursera and 36 NPTEL courses were completed by students and faculty. College has introduced 6 new Certificate Courses this year i.e. Certificate Courses in Chinese & Japanese Languages, certificate course on Personal Tax Planning and E-Filing, certificate course on Cyber Forensics, Certificate Course in soft skills in addition to the continuation of certificate courses in Human Values, Ethics and Life skills and Hindi Translation. New sports like Kho-Kho, Taekwondo, Judo for women were introduced. Changing room for sports students constructed. An "Annual Fitness Assessment Programme" for students as well as for faculty was started. A number of measures were taken in 2019-20 towards a cleaner and greener college campus and increasing awareness among students for environmental issues: including adding more medicinal plants to Herbal Garden, development of Rose Garden, Practising Composting at campus and utilizing manure produced for the maintenance of plants, waste segregation, ban plastic awareness drive and implementation of ban on single-use plastic items in canteen as per the mandate of the Government of India and education trips to Biodiversity Parks in Delhi to sensitize the students towards biodiversity and for showing ecological restoration of degraded soils, 'Campus Bird Count' in collaboration with Meghna Joshi from the Bird Count India and E-Bird India.

Honours/ Distinctions

Capt. (Dr.) Sanjay Kumar Sharma, Associate NCC Officer awarded NCC DG's Appreciation Medallion during Republic Day Camp by DGNCC.

Dr. Perna Malhotra felicitated “Empowered Woman Award” by Urvashi Society on 8 March 2020.

Pooja Bansal, granted Certificate of Excellence in Math π Rates Quiz by Dept. Of Applied Science, The Northcap University on 17 May 2020.

Dr Pooja Bansal awarded Certificate of Excellence in National Level Quiz by IQAC of Samadiya College of Arts and Commerce on 21 May 2020.

Dr Pooja Bansal received Young Achiever Award from Institute of Scholars on 10 June 2020 in Research Category.

Dr Devendra Kumar, felicitated on 150th Birth Anniversary of Mahatma Gandhi) at Gandhi Bhawan, University of Delhi on 2 October 2019 by Honourable VC, University of Delhi for unprecedented contribution to popularize the Gandhian thought among college students.

Principal Dr Rakesh Kumar Gupta was felicitated on 150th Birth Anniversary of Mahatma Gandhi) at Gandhi Bhawan, University of Delhi on 2 October 2019 by Honourable VC, University of Delhi for promoting Gandhian values among students.

Dr. Archana Gaur received Shakti Achievement Award as a part of 12th National Women Excellence Award 2019 on 25 November 2019.

Students with Distinctions

Ms Shreya Uttam, BJMC has topped the University with CGPA of 8.446 and has received Gold Medal in the Annual Convocation of University in 2019.

Ms Shrabani, B.Sc. (H) Microbiology, scored second highest marks in University of Delhi (CGPA 9.257) missed the top rank by 0.01.

Ojasvi Srivastava (B. Com Programme, I year), bagged the first position in the Corporate Meet event organised by Finance and Investment Cell, Ramjas College and Fiontra organised by Deshbandhu College.

Parveen Mehlawat, Volunteer of NSS Unit, Ram Lal Anand College was selected to participate in a 4 day event of Bharatiya Chhatra Sansad (Indian Student Parliament) organised at Vigyan Bhawan by Government of India

On 19 January 2020 at the ‘Pride of Indian Education Awards’ RLAC Dramatics Society presented the Nukkad Natak ‘Meri Pehchan’ and was awarded with the ‘Most Entertaining Dramatic Society in Delhi-NCR’. The prize was handed over by renowned actress Mandira Bedi.

NCC Cadet Chirag Sharma awarded DG's Commendation Card during the Republic Day Parade Camp.

Abhishek Gupta, Rounak Rai, Sarthak Gupta, Tushar Taneja and Vishal Bholra (in Team 1) and Rounak Rai, Sarthak Gupta, Tushar Taneja (Team 2) participated and won at Business Plan Competitions organised at Dyal Singh College (27 September 2019) & Motilal Nehru College (11 February 2020).

Chetan Sharma and Kastur Parida jointly secured All India 9th rank in IIT JAM 2020.

Shubham Kumar Maurya secured All India 67th rank in IIT JAM 2020.

9 NSS volunteers Keshav Goyal, Ritwik Vashistha, Krishnakant, Anshika Sharma, Upmanyu, Ritesh Naagar, Lakshay Chhabra, Varun and Ritika NSS Volunteers completed MHRD Swachh Bharat Summer Internship (SBSI) from 6-26 July 2019.

Publications

Research Articles (36) Scopus Listed: 12; UGC listed: 19; Peer reviewed: 15

Agarwal G, Gupta S, Gabrani R, Gupta A, Chaudhary VK, Gupta V (2019). Virtual screening of inhibitors against Envelope glycoprotein of Chikungunya Virus: a drug repositioning approach, *Bioinformation*, 15(6): 439-447.

Anand S (2019). Sita ke Priya Ram *Strikaal*, 1(32):173.

Bagri R (2019). An Analysis of Nature of Indian Federal System, *International Journal of Humanities and Social Science and Invention*, 8(8):1-4

Bagri R (2020). Origin and Development of Indian Federalism, *International Journal of Humanities and Social Science and Invention*, 9(1):8-9.

Bansal P, Shahid, MH, Lone, MA (2019). Geometric bounds for δ -Casorati curvature in statistical submanifolds of statistical space forms, *Balkan Journal of Geometry and Its Applications*, 24(1):1-11.

Bharti S (2019). Changing Nature of Journalism in India in Digital Era, *Journal of the Gujarat Research Society*, 21(16): 133-138.

Bhatia V (2019). Irrigation System and Ecological Degradation in Turkmenistan, *International Journal of Research (IJRAR) and Analytical Review*, 6(2): 210-215.

Bhatia V (2019). The Role of Biys and Justice in Medieval Kazakhstan, *International Journal of Research (IJRAR) and Analytical Review*, 6(2):301-311.

Al-Solamy FR, Bansal P, Chen BY, Murathan C, Shahid MH (2019). Geometry of chen invariants in statistical, Warped product manifolds, *International Journal of Geometric Methods and Modern Physics*, 17(6):2050081.

Ghildiyal R, Gupta S, Gabrani R, Joshi G, Gupta A, Chaudhary VK, Gupta V (2019). Chikungunya Polymerase: A Potential Target for Inhibitors- in Silico Study” *Virus Disease*, 30(3): 394–402.

b. Books/Chapters published by faculty (15)

International (8), National (7)

Journals

Published by the College

Department of BJMC published “RLA Samachar” and a magazine named “Sambhav”. College Magazine – Samdrishthi.

Number of college teachers serving as Editor(s)/ Member(s) of Editorial Board: 4

Research Projects

National Mission on Himalayan Studies (NMHS) by Ministry of Energy, Forest and Climate, Government of India - Enhancement of Livelihood Opportunities through Sustainable Development using Multifaceted Support Plans for Village Cluster around Patiya in Takula Block, Almora District, Uttarakhand. Sanctioned Grant - 1.99 crores.

Indian Council of Medical Research, GOI - Alterations in oral microbiome of Betel nut chewing population of North Eastern India and its Correlation with Oral Cancers: Prospecting Microbial Consortium for Therapeutic Effect. Sanctioned Grant - 36 lacs.

Indian Council of Social Science Research, GOI - Communicating the science behind the phenomenon of antibiotic resistance to promote social awareness. Sanctioned Grant - 5 lacs.

Indian Council of Social Science Research, GOI - A study of Socio-economic and cultural impact of the left-wing Extremism (LWE) in Bastar, Chhattisgarh. Sanctioned Grant - 8 lacs.

Indian Council of Medical Research, GOI- Resistome metagenomic profiling of bioaerosols in metro network in Delhi- NCR, Technically Approved.

Indian Council of Medical Research, GOI- Targeting biofilm formation by inhibiting Cysteine biosynthesis pathway enzymes in ESKAPE pathogens with natural products, Technically Approved.

Seminar/Conference Organised by College

International

International Seminar on “Nanoparticles in Biology” on 29 January 2020 under DBT -Star College Scheme.

International Conference “Urban Transformation and Sustainable Future” on 23 September 2019.

International Conference “Gandhi across the Boundaries”, on 23-24 October 2019 sponsored by Gandhi Smriti and Darshan Smiti, New Delhi.

National

'Meta-genomics and Genome Editing' on 5 February 2020 under DBT -Star College Scheme.

Women in 21st century: Threats, Challenges and Changing Perceptions, on 28 February 2020.

National Seminar on Latest Trends in Block Chain Technology on 26 September 2019

National Seminar on ‘The Strategic Scope of India’s Foreign Policy: Looking Ahead’ on 18 October 2019

Webinar Organised

Next Generation Sequencing and metagenome analysis, on 15-16 May 2020, Under DBT Star College Scheme.

Molecular Docking: A Powerful Tool for Research at College Level, Under DBT Star College Scheme on 30 April 2020.

Benefits of Digital Administration in Lockdown, in association with IQAC SGND Khalsa College on 1 May 2020.

Seminar/ Conference Presentations: 26

Gaur P L Lives of a literary text: Identifying elements of assimilation and contestation, 3rd Conference on Literatures and Cultures: Literature in History – History in Literature, 10-11 May 2019, Poland.

Kiran N. Re-visiting the women in Ramayana in an International seminar 21st Century Indian Women: Expressions and Representations, March 2019, PGDAV College, University of Delhi.

Kumar N. Romance and Dalit Involvement: A Reflection on Punjabi Dalit in a National Conference on Dalit Studies in India, 7-8 March 2019, CES, JNU.

Kumar P. Characters in Transformation: Change and Continuity in the Ramayana Tradition of India and Southeast Asia in a 2-Day international Conference on “Indian Epics & Soft Power in Southeast Asia” by CSEAS, SLL & CS, JNU in consultation with Indraprastha State University, Jakarta Indonesia, Ramjas College, University of Delhi sponsored by ICSSR, New Delhi, 6-7 November 2019, JNU New Delhi.

Kumar R. Vaishvik Cinema Aur Gandhi in an International conference, Gandhi Across the Boundaries, 23-24 October 2019, Ram Lal Anand college, University of Delhi.

Lal R. A study on Quaternary sedimentation, paleontological occurrences and their site preservation using remote sensing and field observations in central Narmada basin, India. Presented in an International conference in Dublin, Ireland, UK, July 2019.

लक्ष्मीदेवी, नागार्जुनकेउपन्यासोंमेंसामाजिकजीवन “जनकविनागार्जुनस्मारकनिधितथारजा फाउंडेशनकेसंयुक्ततत्त्वाधानमेंएकदिवसीयराष्ट्रीयसंगोष्ठी” 16अक्टूबर2019; आत्मारामसनातन धर्मकॉलेज, दिल्लीविश्वविद्यालय.

Malhotra P. Innovative Teaching Practices in English Literature. Literature in an International Seminar on Innovative teaching, learning and evaluation in English, 23-25 February 2020, Lakshambai College, DU in association with Trinity College, London International.

Pande PK. Development of Geo excursion site for economic regeneration of Uttarakhand. International Workshop on “Sustainable Geoscience” Organised by Department of Geology, Centre of Advanced Studies, University of Delhi, in collaboration with UNESCO-IUGS, and IGCP on 29 February 2020.

Raj T. Managing Moral conflict: a deliberating way, in a UGC Sponsored Two Day National Seminar on “Nationalism and Indian Politics” 6-7 September 2019 organized by Shyama Prasad Mukherjee college, University of Delhi, New Delhi.

National/International (MoUs) signed: 4

ICT Academy membership renewed on 10 Jan 2020 till 28 January 2025

MoU with Virtual Labs (IIT Delhi) renewed on 14 January 2020

MoU with Family of Disabled (FOD) done to provide a platform to differently abled people to earn livelihood by realising their potential

Under ongoing MoU with SOL, University of Delhi for PCP classes.

Other Inter- Institutional Collaboration

Translational Health Science and Technology Institute (THSTI)

Gandhi Smriti and Darshan Samiti, Rajghat, New Delhi.

St Edmunds College Shillong, Meghalaya.

GGS Indraprastha University, New Delhi.

Placement details

CCPC also organized a number of off-campus and on-campus placement and internship drives with participation by various companies like CVENT, OYO, NICL, Sharekhan, Chegg India, Dash Star, Adinath Probuilt Pvt. Ltd.

Angel Group, WEGILE, TRG and Rasich Group and Amazon. A total of 24 students got placements. Besides, a number of career guidance/counselling sessions and soft-skill workshops were held throughout the year

Extension and Outreach work

The CPR training in Association with Indian Spinal Injuries Centre under the Aegis of Centre for Human Values, Ethics & Life Skills on 21 February 2020. Physical Fitness Assessment (BMI, Resting Metabolic Rate (RMR), Body fat%, Body Age, Height, Weight measurements) of students on 27 September 2019 (708 students participated). Awareness Campaigns for Organ Donation, Jal Shakti Abhiyan, electoral awareness Program, Shram Daan For a Plastic Free Campus, Swachhta hi Sewa, Cancer prevention, Swatch Bharat Abhiyaan, Swachhta Pakhwara, Kargil Vijay Diwas, Vigilance Awareness Week, Run for Unity, Tree Plantation Drive, etc. Blood donation camp and Educational Camps in Slum adopted by college, several online awareness campaigns for COVID 19 prevention through quiz, posters, mask making, you tube videos, etc. Field trips (13) were conducted for students of various departments for enhanced knowledge and exposure to enrich class room teaching. This year students were taken to various places in Delhi including Indian Meteorological Department, Parliament of India, Babasaheb Dr. B. R. Ambedkar Memorial, Atomic Mineral Directorate and to Exhibition “Superbugs: The End of Antibiotics?” organised by National Council of Science Museums (NCSM). Students were also taken for Outstation educational tours to Kanatal, Mussoorie, Dehradun, Manali, Khetri Underground Copper Mines, Rajasthan, IIT Mandi, Jaipur, Sabarmati Ashram and Statue of Unity Gujarat.

Library Development

In 2019-20, 943 books worth INR 6,31,788/- were purchased. Scanner and optical recognition software have been made available in the library for converting the books into text books for visually impaired students. N-List membership of INFLIBNET is being utilised by students and faculty for remote access of reading material. For capacity building related to library, A Workshop for faculty and staff was organised by Library committee in association with IQAC entitled “Using E-Library Resources: INFLIBNET and University of Delhi Library” on 30th January 2020. The library staff attended 11 webinars related to library.

Faculty Sanctioned Strength

Permanent: 40

Ad-hoc: 52

Temporary: 01

Financial Allocation and Utilizations

Grant received – Rs. 24.97 crores

Grant Utilized – Rs. 29.14 crores (including carryover from 2018-19)

Other significant information

College-University Linkage: The College was selected as a venue to organize an Open House Session for admission counselling on 10 June 2019 by DU admission committee and Dean Student Welfare Office. The session was attended by 250 students and parents. Centralized Trials of students were conducted for UG admission in all colleges of University of Delhi under NCC and Creative writing ECA categories in June and July 2019. In June-July 2019, RLA College was SOL examination Centre for B.A. (Prog), B.Com (Prog.) and B.A. (Hons) political Science. Student Aid and Fee Concession: A total amount of Rs. 3,20,500/- was distributed among 118 needy students falling under four categories of family income background of students. Apart from this tuition fee

concession of Rs. 180 was provided to all eligible applicants. Pwd Students were exempted from payment of fees. Infrastructural Augmentation: A grant of 1.25 crores has been sanctioned by UGC for starting repair and renovation works. 40 computers with an estimated cost 20 lakhs were purchased for departments of Computer Science, Mathematics, Statistics and Computer Science. A Boys changing room for sports has been constructed. Motorised vehicles have been purchased for PwD students. Scanner and optical recognition software have been made available in the library. In view of EWS expansion, two labs have been added in the Geology department. Three new classrooms have been constructed. Human Resource Development: 54 Faculty posts advertised under various Departments and screening committees constituted. 17 New faculty posts have been sanctioned by UGC in OBC second Trench. Appointment of Research Staff including 4 JRF, one lab Attendant and 3 Field attendants appointed in various research projects. Annual College Cultural Festival, “Splendour 2020” was organised from 14 to 16 February 2020, and was inaugurated by Mr. Hibu Tamang, a decorated IPS officer currently posted as Additional Commissioner, VVIP security. The first day of the festival, was entirely devoted to North-Eastern part of India showcasing beautiful orchestration of dance and music performances of Manipur, Assam, Sikkim, Nagaland, Arunachal Pradesh and Uttarakhand. The next two days were marked by fun-filled and competitive events besides BDM, DJ and Star night. The events witnessed participation of more than 20 colleges across DU and other universities. A renowned Bollywood and Punjabi singer Akhil performed on the star night attracting an unprecedented students’ crowd from several DU colleges.

SATYAWATI COLLEGE (M)

Major Activities and achievement

An Educational Tour to Dalhousie and Khajjar (Himachal Pradesh) was organized by the Department of Economics on 25 February 2020 to study the “Effect of solid waste on environment”. An Educational visit to Indira Gandhi National Centre of Arts was organized by the Department of History on 19 September 2019 in which students learned about Madhubani Painting, arts and Indian folk Arts. An Educational trip to the National Archives of India and National Museum, New Delhi was also organized by the Department of History on 14 November 2019. Three days workshop for Non-Teaching Staff is organized by the College in February 2020.

Honours/Distinction

Dr. Nirmal Jindal was awarded by the Delhi University PVC in a programme organized by Gandhi studies circle, University of Delhi on 2 October 2020 for outstanding contribution for Gandhain studies.

Dr. Anju Seth received “Best Teacher Award” award from Directorate of Higher Education, Government of NCT of Delhi for the year 2018-19.

Dr. Rajeev Singh was invited as Chairperson. World Congress on Reproductive Health with Special Emphasis in Reproductive Cancers, Infertility and Assisted Reproduction, Organized by Shri Mata Vaisno Devi University (SMVDU), Jammu, India, 14 - 16 February 2020.

Publications

Jindal, Nirmal (2019) Relevance of Kautilya in contemporary International Sysytem, *International Journal of Historical Insight and Reasearch (IJHIR)* , 5 (2) ,E-ISSN:2454-5600.

Jindal Nirmal (2019), National Security and Voting Behaviour in 2019 Elections, *Politico*. Vol.11, E-ISSN:2322-0686

Alpana,S.(2019) Perceiving Aims and Objectives of Marriage in Hindu Family: A Critical Reflection: - *Itihas Darpan*, Vol.XXIV(2),47 -55.

Mathur, A (2019), Efficient Stress Management leads to healthy Individual & Healthy Organization, *International Journal of Applied Business & Economic Research*, 17, (I-1), 93-99.

Singh A and Singh R (2020). DNA: An important component of Life. Biochemistry, Biophysics, and Molecular Chemistry; *Applied Research and Interactions*. Editors: Francisco Torrents, Debarshi Kar Mhapatra, A K Bhagi. Taylor and Francis Group, USA. ISBN: 9781771888145

Alpana Swasti (2019) Perceiving Aims and Objectives of Marriage in Hindu Family - A critical Reflection , *Itihas Darpan*, Vol.XxiV(2).

Jha, Ajay K. (2020), *Natyamandap aur Natyavijyan*, Hans Publicaion, Delhi.

Jha Bhuwan Kumar *Hindu Nationalism in India: Ideology and Politics*, Routledge, Oxon and New York, 2020, ISBN: 978-0-367-25332-5 (hbk), 978-0-429-28772-0 (ebk)

Jindal Nirmal Jindal (2019) Environment Security and Ancient Indian Wisdom, *International Journal of Historical Insight and Research (IJHIR)*, Vol.5, No.4, Oct-Dec, 2019 , 498-Article Text-793-1-10-20200312.

Narolia Vaishali (2019) An Evaluation of Corporate Environmental Reporting in India, *Indian Journals of Commerce*, Vol. 72, No. 2, April-June 2019.

Research Projects

Comparative analysis of Leydig cell functions induced by Electromagnetic sources Sponsored by Indian Council of Medical Research. Rs. ~85 Lakhs.

Seminar Organized

A seminar entitled “Relevance of Archeology” organized by the Department of History on 19 August 2019.

A seminar entitled “Making Students Employable” organized by the Department of Economics on 18 September 2019.

A seminar entitled “Our Mind is a Magnet” organized by the Department of Commerce on 9 August 2019.

A seminar entitled “Sufism in Medieval India: Some Historiographical Concern” organized by the Department of History Organized on 20 September 2019.

A seminar entitled “Digitalization, Innovation and Disruption” organized by the Department of Commerce on 27 September 2019.

Seminar/Conference Presentations

Dr. Nirmal Jindal presented a paper entitled “*Revisiting Migration Theories in Covid Pandemic*” at International Webinar on ‘ Migration and Reverse Migration in the Age of Covid 19: Issues, Challenges and Opportunities’, organised by Academics 4 Nation on 20-21 June 2020.

Srivastava V, Ajeet, Sharma R S, Singh R presented a paper entitled “Wireless Internet and Male Infertility: An Update” at the . World Congress on Reproductive Health with Special Emphasis in Reproductive Cancers,

Infertility and Assisted Reproduction, Organized by Shri Mata Vaisno Devi University (SMVDU), Jammu, India, 14 to 16 February 2020.

Dr. Bhuwan Kumar Jha presented a paper on “Resurgence of Sanatan dharma in colonial India: the role of Din Dayalu Sharma and Madan Mohan Malaviya” at the International Webinar on ‘Global Well-Being and the Tenets of Ancient Indian Traditions with Reference to Buddhism’, 9-11 July 2020, organized by Gautam Buddha University, NOIDA.

Dr. Vandana Goswami presented a paper entitled “Concentration Pattern of FDI Inflows in India: A State Level Analysis” at UGC Sponsored two days National Seminar – Changing Business Environment in India: Challenges and Opportunity in India during 28-29 February, 2020.

Kumar P, Negi P and Singh R presented a paper entitled “Evaluation of fungal airspora from indoor sites and their impact on human health” at the 21st National Conference on Aerobiology, Organized by Department of Botany Vishwa-Bharti Santiniketan, West Bengal during 18-20 November 2019.

Dr. Bhuwan Kumar Jha presented a paper entitled “Malaviya’s ideas on education: the founding of the Banaras Hindu University” in the online ‘History of Education Research Conference’ organized by the International Centre for Historical Research in Education (ICHRE), UK, 9 July 2020.

Gupta S, Sharma R S, Singh R presented a paper entitled “Adverse effects of Radiofrequency radiation on Human Health: In-Vitro and In-Vivo mammalian studies” at the World Congress on Cancer (WCC) 2020, Organized by Mahatma Gandhi Hospital and Medical College, Jaipur and NII Delhi during 3 to 5 February 2020.

Dr. Nirmal Jindal presented a paper entitled “*India- China Relations: Prospects and problems*” at international webinar on ‘India- China Relations and the neighbourhood: Evolving Paradigm and Security Challenges’ organised by Society for Social Empowerment, Delhi and Choudhry Bansilal University, Bhiwani on 19 June 2020.

Dr. Nirmal Jindal delivered special lecture entitled “Realist and Liberal theories of international relations” on the google Hangout meets under online teaching-learning process in the lockdown period to the law students of Marwadi University, Rajkot, Gujarat on 14 April 2020.

Dr. Nirmal Jindal delivered a Guest lecture entitled “Citizenship Amendment Act 2019: problems and solutions” organized by ‘Idea First’, Department of Political Science at SD College, Palwal on 27 February 2020.

Placement details

Number of students getting successful placements: 80

Number of Companies/ Industries coming for campus recruitment: 15

Library Development

The total Regular Budget for the library was Rs. 1000500 over and above the previous Year balance of Rs.

527210. Thus the total available balance for the current year was Rs. 1527710. The library incurred a total Expenditure of Rs. 832542 of which 1009 new books were purchased. 3 Computer were also purchased with an expenditure of Rs. 222111. The library subscribed to a total of 48 newspapers, magazine and journals.

Faculty Strength

Permanent Faculty: 98, Temporary Faculty: 01, Ad-hoc Faculty: 45

Financial Allocation and Utilization

Grant Sanctioned: Rs. 54,91,53,000

Utilized: Rs. 483748000

SCHOOL OF OPEN LEARNING

Major activities and achievements

The **School of Open Learning** in collaboration with **ICICI Academy for Skills** organized skill development programmes for the under-privileged youth through self employment and wage employment. Since April 2018, the School of Open Learning about 1000 students have attended the orientation programme and about 120 students enrolled in the above training programme and placed in different companies. SOL has also launched Entrepreneurship Facilitation Center for Skill Development, Innovation, Incubation and Accelerator (Entrepreneurship Cell). In the Entrepreneurship Cell students of SOL (both current and alumni) can immensely benefit by getting to know how Skill Development and Entrepreneurship Schemes of the Govt of India like NITI Ayog – Incubator and Accelerator Program under Atal Innovation Mission, MyGov Atal Innovate, Skill India, Start Up India, Stand Up India, Invest India, Digital India, Ease of Doing Business etc can facilitate New Enterprise Creation, DU College Start Up Incubation program leaders will talk about Entrepreneurship Cycle – from Ideation to Marketing, Get Information on How Entrepreneurship Cell at SOL DU facilitates your transition from being a Job Seeker to a Job Creator and Learn about New Age Skills needed to be job smart&ready in times of AI/ML. Entrepreneurship Cell organized classes on skilling and entrepreneurship, Personality Development, Communication Skills, Ethics and Value Education, Holistic Health etc. delivery through blend of theory and practical support (topics covered – Job seeker vis a vis job creator, identification of idea, govt schemes, Common Service Center). More than 70 to 80 students attended these classes/workshop/seminars. Almost daily Guidance, Mentoring and Handholding support provided to walk in students at E Cell and Proactive reply to queries by students posted on social media like YouTube, Facebook, Email, WhatsApp, LinkedIn, SMS messages and mobile calls. Entrepreneurship Cell organized a one Day Entrepreneurship Conclave, with the theme “Connect, Converge and Catalyse”. More than one hundred Undergraduate, Post Graduate students across all courses and faculty members participated in the conclave. Entrepreneurship Cell launched YouTube Channel names “SOL DU Announcements”. 72 Videos recorded and uploaded on channels on various topics related to ECell- Subscribers – 752 and views of 5100+ students.

Seminar / Conference Presentations

Workshop on “Practical Knowledge of CA Auditing” organized on 05 August 2019

Two-day training program on “Microsoft office 365 outlook or software” organized with collaboration of Microsoft Kaizala Team on 19-20 August 2019

Faculty development Program on “Computerized Accounting System” organized by Tally ERP 9 on 16 October 2019

Workshop on “Preparation of MOOCs” organized by Chairman GB, SOL with the Heads of Departments/Deans of Faculties/Principals of Colleges and TICs on 21 October 2019

Workshop on “Financial Literacy Program” on 21 November 2019

Orientation Program organized for the Academic Counselor taking PCP classes for B.com II and III year students on 25 November 2019 and for B.Com II semester students on 31 January 2020

Lecture on “BUDGET 2020” on 7 February 2020

Seminar on “Benefits of Mutual Funds” organized 07 February 2020

Workshop on “Career Financial Advisory” on 4 March 2020

Two-day Seminar on “Research Methodology” by on 11-12 March 2020

Placement Details

Number and percentage of students placed different companies: More than 300 students

Number of Companies visited for campus recruitment : 5

Library Development

Total Budget: Rs.1,13,000,00/-

Number of books added: Rs. 5945 Volumes

No. of National Periodicals/Journals Subscribed: 11

No. of International Periodicals/Journals Subscribed: 02

(Paperback version only)

The Library, SOL provide the following services:

DELNET (Resource Sharing Network) Services to the academics for to their requests of those documents which are not available in SOL library. The documents are collected from members libraries of DELNET and made available for consultation in SOL library premises only.

N-LIST (National Library and Information Infrastructure for Scholarly Content) The students are provisioned with the N-list database of more than 6257+ e-journals with back files for 10 years and 31,35,809 + e-books. These resources belong to all the disciplines and student can access this facility remotely from anywhere 24x7hrs.

Enabling Unit for visually impaired students - Equal opportunity Cell (EOC) has full-fledged facility with special gadgets and software for visually impaired namely Seika V3-Braille Display, Braille Sense U2 Note Taker, Readit Scholar-HD, Read Easy move standalone reading Machine, Daisy Player, Braille Face and NVDA.

Sugamaya Pustakalaya Online: The Sugamya Pustakalaya is the aggregator of accessible e-versions of books available in India. It is poised to become the largest collection of books in accessible formats in India and a one-stop resource for the reading requirements of all those persons who due to blindness, weak eyesight or any other disability cannot read the standard print. Bookshare, the largest International online library for persons with print disabilities is also integrated into Sugamaya Pustakalaya.

To provide equality education to the distance earners, the library portal is being designed and developed having the following features:

- i. Structured digital library with open access e-resources, licensed e-resources, e-learning & educational portals, study material, web catalogue, resource sharing mechanism, etc. accessible 24 X 7 from anywhere.
- ii. Portal is being facilitated with ease-to use guides.

Faculty Strength

Permanent: 19

Temporary: 01

Ad hoc: 01

Financial Allocation and Utilization: No grant is being received from the UGC since 1998. The expenses of SOL being managed from the students fees.

SHAHEED BHAGAT SINGH COLLEGE (EVENING)

Major Activities and Achievements

Students have initiated and completed social-service projects, participated in inter-institutional competitions and brought laurels and accolades to the college. The Enactus-SBSEC, NSS (National Service Scheme), the debating society NUKE, OBC cell and Women Development Centre were the prominent societies which performed exceedingly well and provided fantastic platform to the students to showcase their talents and innovation. Several new societies such as Areopagitica- The Creative Writing Society, Sangh Kriti- The Intercultural Society, the Finance and Investment cell (under the Dept. of Commerce) started their activities with great success. Placement cell registered another very successful year. The Department of Economics organized the 3rd edition of National Young Scholars Conclave which saw participation from throughout the country. Our faculty members participated and presented in several National and International seminars/conferences, published research and textbooks, and undertook several projects.

Honours/Distinctions (Institutional)

Assessed and Accredited by NAAC With GRADE 'A' {CGPA 3.36}

Publications

Soni, Amit , Kar, **Rabi N.** and Bhasin, **Niti** (2019). Understanding the Paradigm Shift in Strategy of M&As in India in Volatile Period through Motive Analysis: Evidences from IT Industry, *Global Business Review* <https://doi.org/10.1177%2F0972150919879299>

Shree, Ankita (2020) “The importance of female workers for India’s future economic growth” *Asia Dialogue*, University of Nottingham- Asia Research Institute.

Dubey, Chandra Shekhar (2019) Repressive Psyche, Unceasing Eloquence of Silence, and Fragmented Self in Arvind Adiga’s *The White Tiger*. *International Journal of Analytical Review*, 5(3) 2348-1269.

Kumar, Dilip, Singh, R. B. & Kaur, Ranjeet (2019) *Spatial Information Technology for Sustainable Development Goals*, Springer. ISBN 978-3-31958038-8, 2019.

Kumar, Prem (2019) Census Towns in Uttar Pradesh: Understanding the Transformation of Rural Economy into Urban Economy. *Economic & Political Weekly*, 54(33).

Purkayastha, Sharmila (2019) Social Change in Lushai Hills. *Indian Journal of Public Administration*, 65(2).

Dutt, Sheo (2019) *Aspects of Economic Condition of Eastern India (with special Emphasis on Trade and Trading Centres)* ISBN: 9789351711513.

Sagar, Mani (2019) chapter in the booklet, “Dr. Bhim Rao Ambedkar: Short Biography”, published by Govt. of NCT of Delhi, Dept. for the Welfare of SC/ST/OBC/Minorities, New Delhi. December 2019.

Jain, S. K. (2019) Emerging Federal process in India: Accommodative to Electoral Federalism In Tyagi, R., Mangla, S. & Giri, N. (Eds.) *Glocalization and Federal Governance in India, Understanding the emerging issues*. Bloomsbury.

Bandooni S. K. (2019) Climate Change and Natural Resource Management in Mountain Regions: A Case Study of Garhwal Himalaya. *Horizon- A Journal of Social Sciences*, 10(1) pp1-10.

Seminars organized

Sh. Manish Sisodia, Deputy Chief Minister, Govt. of NCT of Delhi, A Sustainable Road Towards Entrepreneurship: A Transformational Journey Of Young Minds, 11 November 2019.

Prof R K Singh, Head & Dean, Department of Commerce, Delhi School of Economics, University of Delhi, Human- Technology Interface, 24 February 2020.

Mr. Robin Yadav- founder of White Magnets, Mr. Rajbir Singh- founder of Rohan Infotech and CA Abhishek Mishra- founder of Edubirds, Achiever’s Talk 1.0: Information, Inspiration and Hope, 25 February 2020.

Prof. Jaya Tyagi (Dept. of History, & Director for Women Development Centre at University of Delhi), Ms. Padmini Kumar (Assistant Director, Joint Women’s Programme), Ms. Rajashree Rai (Managing Director, APN News) and Ms. Neha Shalini Dua (Social worker and founder of Neha Foundation) , Inclusiveness and Exclusiveness: Women’s Representation and Leadership, 17-18 February 2020.

Seminar/conference presentations

Dr. Amit Soni presented a paper entitled “The role of quality certification in cross border mergers and acquisitions- evidence from the Indian IT industry” at the Sixth Biennial Conference of the Indian Academy of Management (INDAM 2020) held at IIM Trichy, 02-04 January 2020 and was also adjudged the best paper of the track.

Dr. Anupama M Hasija presented a paper entitled, "Haphazard Growth of Farmhouses in Delhi and Environmental Sustainability" in the two day long ICSSR-IMPRESS "National Seminar on Spatial Dimensions of Environmental Problems and Natural Resource Law" at Conference Centre, University of Delhi conducted by Shaheed Bhagat Singh College, 3 - 4 September 2019 .

Mr. Jeetendra Kumar presented a paper entitled “United Nations Response to Natural Disasters: Evolving Norms Creation and Institutional Mechanisms” at XLIII Indian Social Science Congress, Bengaluru Central University, Bengaluru, 17-21 January 2020.

Dr. Kavita Yadav presented a paper entitled “Managing Adolescent- Centric Health Services: A Global Phenomenon in Emerging Economies” at 3rd International Conference on ‘Global Business and Social Issues’ at Department of Business Administration, Assam University, Silchar Campus and also co-chair a session thereon, 10 -11 January, 2020 .

Ms. Kalyanee Rajan, as an invited speaker/panelist presented a paper entitled “Translating Culture, Culture in translation: A brief Analysis of Select Case Studies” at Translation: A Bridge Between Two Cultures - National Symposium on International Translation Day organized by the Sahitya Akademi, Indian National Academy of Letters, at the Sahitya Akademi Conference Hall, Rabindra Bhavan, 35 Ferozeshah Road, New Delhi – 110001 on 30 September 2019.

Dr. Krishna Kumar presented a research paper entitled, “*Analysing the Potential and Challenges in Making Gaya a Smart City*”, in the Seventh Northern Regional Social Science Congress on “Social Sciences and Nation Building: Issues and Challenges”, Jointly organised by ICSSR-New Delhi & U.P. Rajarshi Tandon Open University, Prayagraj during 2- 4 February, 2020.

Mr. Suman Das awarded 2nd best paper entitled “Identification of Landslide-prone Zones of Mandakini valley (Central Himalaya) post-Kedarnath Tragedy (2013)” in the 41st Indian Geographer Congress, organized by National Association of Geographers India, 28 - 30 December 2019.

Dr. S. K. Bandooni presented a paper entitled “Determinants, Destinations and Impacts of Out Migration from Garhwal Himalaya: A case study of Paso gad Watershed” in National Conference on Historical Geographies of Location and Cultural Evolution in India, Organized by Department of Geography, Shaheed Bhagat Singh College, University of Delhi, 13-14 April 2019.

Dr. S. K. Bandooni presented a paper entitled “Role of Indigenous Language/dialects for Corporate Social Responsibility: A Case Study of Naugura Watershed in Garhwal Himalaya, Uttarakhand, India” in the third NYC Green School Conference, Organized by Green School in collaboration with Climate Week NYC, IN New York, USA, 26 September 2019.

Ms. Shilpy Malhotra presented a research paper entitled “Women Entrepreneurship – Policy Initiatives- Indian & Global Perspective” at the National Seminar on ‘Role of women Entrepreneurs in Socio-Economic Development of India’ organized by Bharti College, University of Delhi on 26-27 April 2019.

Placement Details

Number of students placed: 65

Number of companies that visited for placements: 16

Extension and outreach activities

The NSS (National Service Scheme) organized contribution towards Flood Relief Donation and Collection Drive, Fit India Movement and Voting Awareness Campaign.

The NSS team organized the World Environment Day on 5 June 2019 in which a team of students along with the teachers visited the nearby residential colonies to spread awareness about the environment and its conservation wherein they took a pledge to preserve nature, forbid the use of plastic and be a welcoming host to sustainable development.

The NSS took up ‘Project Oorja -an initiative to provide solution to two major problems i.e. flowing waste management and rural unemployment amongst women’ and UDYOG 2.0.

The members of ENACTUS visited an NGO- Social and Development Research and action group at Sadrag, Hapur, U.P.

The NSS team organized 'Ujjwal – The Diwali Drive' and 'DAANUTSAV 2020' during 2 -8 October 2019, 'KATI PATANG: The auspicious festival of' Makar Sankranti', and 'Hope – The Paper Bag Drive'.

The NSS team also visited the Samadhaan Abhiyan NGO on the occasion of Republic Day.

Library Development

The college has a fully furnished, air-conditioned library. The Library is fully computerized and has a rich collection of the latest titles in various disciplines. The Library subscribes to many standard magazines, periodicals, newspapers and journals. It has over 50,000 books on the shelves. We have been consistently enriching and updating our library. Apart from the books catering to the course requirements, we have books on Computers, Sports, Psychology, Sociology, Education, Religion, Philosophy, Gardening, Cooking, Children's literature and Library Science. The Library boasts of complete access to e-resources of the University of Delhi. Electronic services are available for faculty members and students. Users' access covers 132 electronic resources from a large number of publishers through Delhi university Library system. E-Journals are available through Delhi University library System (DULS) and Individual N-List Subscription is also available through INFLIBNET Centre, Gandhi Nagar, Gujarat.

Faculty Strength

Permanent Faculty- 41

Ad hoc Faculty- 31

Guest Faculty- 28

Financial allocation and utilization

Grant sanctioned in Rs. - 284872000

Grant utilized in Rs. - 344486302

Other Significant Information

A team of delegates from Taiwan University visited the college on 6 September 2019 and gave information about different disciplines and courses being offered in Taiwan and how to apply for them and the scholarships on offer.

The Department of Political Science organized 1st National Mock Parliament in the college on 6 March 2020 wherein it simulated two Parliamentary committees -Lok Sabha and Ministry of External Affairs.

SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES FOR WOMEN

Major Activities and Achievements

In the NIRF under the College category, the college, obtained 67th position, amongst the 1,659 participating institutions, with an overall score of 53.22. Under the Teacher Exchange Programme with the Silesian University, Faculty of Philosophy and Science in Opava, Czech Republic, Ms. Venika Gupta and Ms. Preeti

Singhal visited Silesian University, during 5 – 13 May 2019. Department of Electronics and Department of Physics organized the National Seminar on Laser Dynamics and Fiber Optics on 7 January 2020. Department of Microbiology and Biology organized the National Seminar on Antimicrobial Therapy: Challenges and Future Trends held on 25 February 2020. Enactus has launched Sehej Jams and new brand Kashida under the umbrella of Project Pehchaan.

Honours/ Distinctions

Dr. Payal Mago, Principal, received a National Dedication Award in the field of Higher Education by ESCOI agency, conferred on 26 January 2020.

Ms. Preeti Singhal was conferred Meritorious Teacher's Award under the Scheme "Awards for College Teacher/Lecturer" by Govt. of NCT of Delhi for the year 2019 – 2020.

Dr. Amita Kapoor was awarded Intel AI spotlight Award 2019 (Europe) for the development of the Peter Moss Acute Myeloid & Lymphoblastic Leukemia Detection System, an open-source project using Artificial Intelligence Network to detect positive and negative examples using Intel technologies.

Mr. Saaket Kumar (A.O. (offg.), Administration), Mr. Birbal Sharma (Laboratory Assistant, Electronics), Mr. Tilak Raj (MTS, Administration), Ms. Shashi Kala (MTS, Administration) received 25 years of excellence award.

Publications Total Number – 77

Arora Indu (2019) Synthesis and Characterization of Zero Valent Iron Nanoparticles, and the Study of Their Effect against the Degradation of DDT in Soil and Assessment of Their Toxicity against Collembola and Ostracods", *ACS Omega*, 4, 18502-18509.

Bajaj Deepali, Bharti Urmil, Identifying Requirements for Big Data Analytics and Mapping to Hadoop Tools, *International Journal of Recent Technology and Engineering (IJRTE)*, 8 (3).

Kaur Jasjeet (2019) Vapor Phase Methods for Detection of Latent Fingerprints: A Review, *International Journal of Forensic Science* 2, 84-91.

Kapoor A (2019) Assistance System (AS) for Vehicles on Indian Road's: A Case Study. Ahram T., Karwowski W., Taiar R. (eds) *Human Systems Engineering and Design. IHSED* 2018. Advances in Intelligent Systems and Computing, (876). Springer, Cham, ISBN: 978-3-030-02053-8.

Mago Payal (2019-20), Preliminary Investigation of Bioactive Compound from Rumex Vesicarius and Treminalia Catappa Plant, *Asian Journal of Engineering and Applied Technology*.

Saxena Punita, Efficiency evaluation and benchmarking of air carriers in India for the year 2016 – 17 using Data Envelopment Analysis (DEA), In the Conference Proceedings, "Emerging Trends in Information Technology" ISBN 978-93-89165-99-9, pp.141 – 157.

Bakshi Radhika (2019) Expression of mitochondrial genes predict survival in pediatric acute myeloid leukemia, *International Journal Hematol*, 110(2), 205 – 212.

Sharma Shalu (2019) Near Exact Operator Banach Frames In Banach Spaces, *Poincare Journal of Analysis & Applications* Vol. 2019 (1), Special Issue (ICAM, Delhi), 67-76. ISSN 2349-6789

Chawla Suruchi (2019) Intelligent web search system for personalised web search based on recommendation of web page communities, *International Journal of Intelligent Systems Design and Computing*, Vol. 3, No. 1.

Research Projects

Sanctioned by ICSSR, “Ecological Feminism of Indian women: A comprehensive study on indigenous practices for sustainable development”. Total Grant: 26 lakhs.

Seminars Organized –

Mr. Atul Bhardwaj, Scientist E LASTEC, DRDO (Title – Solid State laser – Q switched Technology), Prof. M.R. Shenoy, Prof. of Physics, IIT Delhi (Title – Optical Fiber Communication – A perspective) and Prof. R.K. Varshney, Prof. of Physics, IIT Delhi (Title – Fiber Optic Components and Devices), National Seminar on Laser Dynamics and Fiber Optics, 7 January 2020.

National Seminar entitled “Antimicrobial Therapy: Challenges and Future Trends”, organized by Department of Microbiology and Biology, 25 February 2020.

Dr. D.K Bhattacharya, Scientist H, DRDO (superannuated), Introduction to Micro – Electromechanical Systems (MEMS), 3 February 2020.

Sh. Pawan Kumar, Secretary, DLSA East, Violence against Women: Interpersonal and Digital Interface with Special Emphasis on Delhi Victim Compensation Scheme, organized Department of Computer Science, 22 January 2020.

Dr. S. P. Khanuja, Founder and Managing Director of Skies India, Chairman and founder of Flora Fauna Science Foundation and ex-chairman of CIMAP, Entrepreneurship Opportunities for Life Science Graduates, organized by Department of Biomedical Science, 18 September 2019.

Seminar/ Conference Presentations (Maximum 10) –

Ms. Monika Tyagi presented a poster entitled “Non-Linear Vibration Of Curved Swcnts Embedded In Viscous Elastic Matrix Using Asymptotic Perturbation Method For Chaotic Behaviour” in International Conference on Atomic, Molecular, Optical & Nano Physics with Applications organized by Department of Applied Physics, Delhi Technological University during 18 – 20 December 2019.

Ms. Saumya Chaturvedi and Ms. Vandana presented a poster entitled “Status of Cereal Processing and Production in India” in National conference at Shyama Prasad Mukherjee College during 6 – 7 March 2020.

Ms. Saumya Chaturvedi and Ms. Vandana presented a poster entitled “Health Benefits of Microgreens” in National conference at Shyama Prasad Mukherjee College during 6 – 7 March 2020.

Ms. Saumya Chaturvedi and Ms. Vandana presented a poster entitled “Non thermal processing in Food Industry” in National conference at Shyama Prasad Mukherjee College during 6 – 7 March 2020.

Ms. Prabhjot Kaur Sabharwal, Ms. Vandana Vandana awarded second position in poster presentation entitled “Comparison between physico-chemical properties of different wheat varieties” in National conference at Shyama Prasad Mukherjee College during 6 – 7 March 2020.

Ms. Prabhjot Kaur Sabharwal and Ms. Vandana presented a poster entitled “Development of Meat Analogue and its Physico-chemical analysis” in National conference at Shyama Prasad Mukherjee College during 6 – 7 March 2020.

Dr. Sonal Singh presented a poster entitled “Influence of surface modifications on photocatalytic activity of pure and acid-etched template free graphitic C₃N₄:A comparative study on different dyes” at Nano Road Show held at Miranda House, University of Delhi, India on 1 February 2020.

Dr. AlkaVohra Kuanr, Mr. Ganesh Gurjar, Dr. Manoj Kumar Jaiswal presented a poster entitled “Applications of particle accelerators for mankind: A futuristic view” at Inter University Accelerator Centre on 28 February 2020.

Mr. Ganesh Gurjar presented a poster entitled “Thickness dependent characteristics of Single Crystalline Bi: YIG Thin Film grown with different orientation” in online bulletin of American Physical Society (APS) March Meeting 2020.

National / International MoU signed

With Indian/ Foreign Companies/Industry – 02

Placement Details

Number and percentage of students placed – 100 (16.47%)

Number of companies visited for campus recruitment – 7

Extension and Outreach Activities

In the third year of the Science Setu Program, 3rd open day was organized by THSTI on their 10th foundation day, i.e. 15 July 2019. Laboratory visits, meetings with the eminent scientists of THSTI and research scholars along with a poster competition was organized. 20 students from Department of Biomedical Science and Department of Microbiology presented posters and participated in the meeting.

Enactus – Project Pehchaan: Making members of the LGBTQIA+ community self sustainable by training them to take up entrepreneurial activities was organized.

Library Development

Total Budget: For Books – Rs. 9,87,505, Journals – Rs. 49,190 and Non – recurring – Rs. 1,22,381

Number of Books added: Printed Books – 838 and E – books – 135000

Journals Subscribed: Printed – 19, E – Journals – 5000 (off – campus) and 42000 (on campus)

Faculty Strength – 119

Financial allocation and utilization

Grant sanctioned in Rs. – 23,83,92,020.29 *

Utilized in Rs. – 22,12,10,142.01

*INCLUDES OPENING BALANCE AND OTHER RECEIPTS

Other significant Information

The North – East Cell organised an event “TOURISM SHOWCASE” as a celebration of World Tourism Day on Friday 27th September 2019. The theme of the program was “Unexplored Slice of Paradise”. In this event, members of NE cell delivered talks on their representative state including information about their

culture, communities, festivals, tourist spots, foods, etc. All the members showcased their traditional attires as a symbol of the Eight Sisters.

“German Language Certification Course”- a part time language course in affiliation with Department of German and Romance Studies, University of Delhi was introduced. Batch of about 50 students from various colleges were enrolled and have been taking classes throughout this academic session.

As a flagship program of MHRD, the college has established an Innovation council to systematically foster the culture of Innovation. The primary mandate is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in the informative years.

In a continuous effort to enhance the green cover in the campus, ‘Tree-plantation drive’ was organized on the Ozone day, 16th September 2019 in association with ‘Harela Foundation’ and ‘Shakti’.

Spic Macay – Virasat: a week long cultural festival comprising of all aspects of Indian cultural heritage. Virasat is an eclectic mix of some of the best aspects of Indian culture comprising of cinema classics, heritage walk, classical dance and classical music in a four day cultural extravaganza. Major event in Rajguru Chapter Virasat Series 2020 was the performance of Indian Kathak Dancer Padma Shri Shovana Narayan Ji on 29 January 2020. Shovana ji portrayed all hues of emotions quite powerfully yet with sensitivity. Her renditions were thought-provoking and inspiring.

SHAHEED SUKHDEV COLLEGE OF BUSINESS STUDIES

Major Activities and Achievements

SSCBS has been ranked No. 1 among 120 colleges by India Today rankings released on July 6, 2020. The student placement has been highly successful with the highest package of INR 18 Lakhs p.a. and the average package of INR 7.1 lakhs p.a. SSCBS in collaboration with University of Delhi and the Institute of Cyber Security and Law has entered the second year of successfully running the 42 week Post Graduate Diploma in Cyber Security and Law (PGDCSL). Further, a certificate course Digital Marketing was launched jointly with Knowledge partner Edu4Sure in November, 2019. Our students have made the college proud by winning the first prize in the global case competition at Harvard (GCCH). Our students and faculty have also collaborated in research and have jointly published four articles.

Honors/Distinctions

The college won the Global Case Competition at Harvard 2020 (Prize money of 10000 US Dollars) by defeating the prestigious institutions of the world such as MIT, London Business School, and HEC Paris etc. It was organized by IFSA Network and Harvard Graduate School of Arts and Sciences Business Club.

Obtained the Second position at Duff & Phelps YOUniversity Deal Challenge (Prize money of INR 75000) organized by IFSA Network and Harvard Graduate School of Arts and Sciences Business Club.

The college was one of the top 20 teams across the globe and only team from India in the Copenhagen Business School Case Competition organized by Copenhagen Business School.

Was placed at third position at the prestigious HSBC Case Competition

Publication

Deshmukh, Sonia, Manoj Agarwal, Shikha Gupta, and Naveen Kumar (2020). MOEA for discovering Pareto-optimal process models: an experimental comparison. *International Journal of Computational Science and Engineering* 21, No. 3, 446-456.

Kalsie, A; Arora, A. (2019). Structural Break Analysis of the Impact of US Financial Crisis: Evidence from BRICS Economies , *Transnational Corporations Review*, Issue 3, Vol. 11, pp 250-264.

Shrotryia, VK & Aggarwal, R. (2019). Exploring relationship among entrepreneurs' Success, psychological capital and financial performance-A study of start-up entrepreneurs in India. *The Indian Journal of Commerce*, 72(1), 1-18.

Tandon, Abhishek & Neha, & Aggarwal, Anu & Jaiswal, Ajay. (2020). Reliability Assessment of Software System Using IFS and OWA-Tree Analysis. *International Journal of Reliability, Quality and Safety Engineering*. 10.1142/S0218539320400136. (Scopus & ESCI indexed)

Goel, A. (2020). An Empirical Study of Jan Dhan - Aadhaar - Mobile Trinity and Financial Inclusion *International Journal of Banking, Risk and Insurance*, 8 (1), 62-79

Sehrawat, N. K., Kumar, A., Lohia, N., Bansal, S., & Agarwal, T. (2019) Impact of Corporate Governance on Earnings Management: Large Sample Evidence from India. *Asian Economic and Financial Review*, 9(12), 1335–1345. doi: 10.18488/journal.aefr.2019.912.1335.1345 (Scopus Indexed and C category in ABDC Journal Quality List)

Abhinav Bajaj, Hamendra Kumar Porwal, Rohini Singh, Sarth Mahajan, Empirical Evidence of Relationship between Contingent Liability and Market Capitalization, *International Journal of Management Studies*, Vol.–VII, Issue 1, January 2020 [pp 71-81] ISSN(Print) 2249-0302 ISSN (Online)2231-2528

Khatri Deepti (2020) Portraying Screen Reading Behavior of College Students of University of Delhi, *DESIDOC Journal of Library & Information Technology*, Vol. 40 No.3, ISSN: 09740643, 09764658.

Zenith (2019), Branding and Consumer Behaviour: A Study of the Indian Sportswear Market, *International Journal of Multidisciplinary Research*, ISSN-2231-5780, Vol9 (1).

Marwaha, T. (2019). Problems being encountered while promoting Entrepreneurship amongst (under graduate) students in Shaheed Sukhdev College of Business Studies, University of Delhi, *NOLEGEIN Journal of Entrepreneurship Planning, Development and Management*, 2 (2). pp. 24-35. ISSN=2581-3900.

Journals

Number of college teachers serving as editor(s), Member(s) of Editorial Board: Three

Research Projects

Project entitled “Increasing the impact of Government welfare policies for Social and Financial Inclusion through technological integration in India”, Investigators: Dr. Sameer Anand, Dr. Ajay Jaiswal, and Dr. Kumar Bijoy, Funded by ICSSR, MHRD, 15 January 2020- 15 January 2022, Amount Sanctioned: INR 640000

Seminars Organized

Dr. Neeraj Kumar, Associate Professor, Thapar Institute of Engineering and Technology, Patiala, Punjab; Dr. Jagdish Chand Bansal, Assistant Professor, South Asian University, New Delhi; Dr. Mayank Aggarwal, Associate Professor & H.O.D, Computer Science & Engineering, Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar Dr. Prashant Singh Rana, Dr. Harpreet Singh, Assistant Professor Thapar Institute of Engineering and Technology,

Patiala and Mr. Aninda Bose, Senior Publishing Editor Springer India delivered a talk entitled “ Machine Learning with data Analytics”, FDP on Machine Learning with data Analytics, 15 July to 20 July 2019.

Mr. Peeyush Pahade, Vice Principal HV. Desai College, Pune, and Founder Member of IQAC Cluster India and Coordinator IQAC, NAAC Accreditation of Higher Education Institutions, IQAC Workshop on NAAC Accreditation of Higher Education Institutions, 4 November 2019.

Dr Venika Krishna, Counselor & Career Coach M.Sc (IIT), Ph.D, B.Ed, DCGC (NCERT), GCC (UCLA), Dealing with Distractor Influence, Workshop on “Dealing with Distractor Influence”, January 2020.

Ravinder Rena, Professor of Economics, Monarch Business School, Monarch University, Switzerland, Growth Dynamics of Global Economy – A perspective on developing countries, January 2020.

Ms. Shruti Bansal, Associate Director, EY, The Big Deal - A peek into career in Transactions, 13th February 2020

Conferences Organized

National Business Seminar- Convergence, 25th September 2020.

4th International Conference on Innovative Computing and Communication (ICICC 2020-21), 21-23 February, 2020

Seminar/Conference Presentation

Neeraj Kumar Sehrawat, Amit Kumar, presented a paper entitled “Impact of Corporate Governance on Earnings Management: Large Sample Evidence from India” at India Finance Conference at IIM Ahmedabad in December 2019.

Shikha Gupta presented a paper entitled “MOOCs- Promoting International Communication” at International Communication and Community Development Conference 2019 held at Notre Dame Seishin University, Okayama, Japan 16-17 November, 2019

Mona Verma delivered a talk entitled “ Two echelon supply Chain with vendor Managed inventory and revenue sharing contract under shortage gaming scenario”, in 52nd Annual Convention of the Operational Research Society of India & International Conference, IIM Ahmedabad, 15-18 Dec, 2019.

Sonika Thakral presented a talk entitled “Mind and Body in Balance: Assessing Yoga to Demystify its Effects on Cognitive Performance” in ACCS 2019, Goa, India, December 2019.

Tushar Marwaha presented a talk entitled “Managerial Learnings from post 1948 conflicts – India’s link with West Asian Region” at Seminar on “India’s Emerging Relations with West Asian Countries” organized by UGC-HRDC, Jamia Millia Islamia, New Delhi during 27-28 January 2020.

Jigmet Wangdu presented a paper entitled “Revisiting HR in the Digital Era: Impact of Critical Shifts in Technology, Operations and Culture”, at XVth International Conference by Jagannath International Management School on 15 February 2020.

Sandra Suresh delivered a talk entitled “Market Inter-linkages- Opportunities for Indian Commodity market and Stock market Investors” at 7th PAN-IIM-World Management Conference 2019 on 14 December 2019.

Kumar Bijoy’s talk entitled “Liquidity Issues in Indian Banking System due to Non- Performing Assets: Searching Alternatives in Fiscal Deficit and or Interest Rates” accepted for oral presentation at the 9th International Conference on Restructuring of the Global Economy (ROGE), University of Oxford, UK, 8 - 9 July 2019.

Sushmita presented a paper entitled “Is OPEC dead or alive? An analysis in light of QATAR’S Exit from OPEC” in the 2 day International Conference on " India's Emerging Relations with West Asian Countries: A Global Perspective". 27-28 January 2020.

Deepthi Khatri presented a paper entitled “Level-wise Difference in Information Seeking Behavior of Undergraduate Students: An Exploratory Study”. Library & Information Services Emerging Digital Paradigm. Editor, Rajesh Kumar and Tariq Ashraf. Book Age Publication: New Delhi. pp.21-26. ISBN:978-93-88181-11-2.

National/ International MoU signed

MoU with Indian companies/ Industry: Five

BSE for running the FMAT (Financial Modeling and Algo Trading) course.

NSE for running the NCCMP (NSE Certified Capital Markets Professional) Course

Chartered Institute of Management Accountants (CIMA)

TestFormula Education Private Limited for running the Digital Marketing course

Young Indians (Yi) Confederation of Indian Industry (CII)

Other Inter-Institutional Collaborations

Certificate Course on Applied Financial Technology at Shaheed Sukhdev College of Business Studies, Delhi is jointly offered in association with YStart Innovation Labs under academic guidance of Department of Financial Studies (South Campus, University of Delhi)

Students under exchange programme inbound/outbound

One student from Colombia is studying under Bachelor of Business Administration (Financial Investment Analysis) of SSCBS. The student is associated with the college under exchange program with Univeisidad Externado de Colombia in the light of MOU between University of Delhi and Univeisidad Externado de Colombia.

One student from France is studying under Bachelor of Management Studies of SSCBS. The student is associated with the college under exchange program with Universite Jean Moulin Lyon 3 France in the light of MOU between University of Delhi and Universite Jean Moulin Lyon 3 France.

Placement Detail

Number and percentage of students placed: 189 (83.33% placed)

Number of companies visited for campus recruitment: 75

Extension & Outreach Activities

Enactus SSCBS is currently working on 3 developmental projects: Khidki, Pravaah and Avya. Khidki aims to eliminate malnutrition from urban slum communities through an all pervasive approach. We conducted various health camps and awareness drives to educate the people about the invisible evil of malnutrition. The project was successfully delinked with support from the Department of Women and Child Development and our NGO partner, using a network of NGOs and SOPs.

Avya was launched in the Bhalswa community near Jahangirpuri with the objective to provide potable water solutions to urban slum communities by developing low cost customized household filtration systems through a community-based approach. Extensive research is conducted on the water supplied in a particular area, and accordingly a water filter is developed to eliminate the contaminants present in the water at the lowest possible cost. Residents are sensitized about the need for clean drinking water and sanitary practices.

Pravaah offer holistic clean air solutions at an affordable price while enabling the skilled unemployed youth to raise their own livelihoods. Our offering includes a low cost air purifier, coupled with a set of NASA-accredited air purifying plants. The project was launched in an RWA in Rohini, with support from the MLA.

An International street theatre festival is organised by Verve-The Street Play Society of SSCBS. The main idea that revolves around Manthan is to spread awareness among the masses about the social evils that exist in the society and motivating them to fight these evils for a better living. This year the 13th edition of Manthan was organised wherein more than 32 colleges had participated in the event.

Library Development

The library is spread over two floors covering an area of approx. 1161 sq. m. and has designated space for reading rooms for 218 students and research section for faculty members along with reprographic facility.

The library has added 1043 new titles in its collection and the total number of books in the library is 23,338. In addition, the library subscribes to 59 magazines and journals of national and international repute and 14 national and business newspapers. An approximate budget utilized on the purchase of books, magazines/journals, newspapers and membership fee for institutional members is Rs. 8,70,602.

All college library activities i.e. acquisition, technical processing, circulation, serial control and system administration are automated using the cloud based Open Source Solution i.e. KOHA. It provides easy access to the library catalogue (OPAC) from anywhere anytime. It enables students, faculty and staff members to check the status of the library resources and also maintains the transparency in all the transactions by providing access to their personal accounts. We are one of the leading college libraries of University of Delhi using KOHA Open Source Integrated library management software shifted from LIBTEK DOS based library system since May

2014. The library verifies its stock every year using the bar-code technology. Library has created its own portal which assimilates useful resources and serves as a gateway to easy access to a wide variety of resources i.e. Web based OPAC (Online Public Access Catalogue, E- Resources, Syllabus and Question Papers etc.)

Apart from the print resources, teaching and research is also supported by accessing the large number of electronic resources accessible through Delhi University Library Network. The library has an Institutional membership of Developing Library Network (DELNET); N-LIST (National Library and Information Services Infrastructure for Scholarly Content) and NDL (National Digital Library). Moreover, Library organised book exhibition for students and faculty during 17 -18 October 2019 and on 27 February 2020. It also provided library internship for the period of three months i.e. August – October, 2019.

Faculty Strength

Permanent: 33

Adhoc: 13

Financial allocation and Utilization

Grant-in-Aid Received: Rs. 145,000,000

Utilization/Expenditure: Rs. 161884176

SHIVAJI COLLEGE

Major Activities and Achievements

The college has been accredited with Grade “A” by NAAC, was ranked 11th in Commerce and Humanities, and 12th in Sciences by India Today in 2018 and 51 by NIRF 2020. It is also receives financial support, guidance and mentoring from the Department of Biotechnology and its associated programmes under the Star College Scheme. The new building - Jijabai Academic Block, with modern facilities, state-of-the-art labs, classrooms, research labs, finance labs and seminar halls was inaugurated on 29 February 2020. In the wake of the COVID crisis, a counselling group was set up for the students living in rented apartments and PGs. The college created an E-Content repository on the College Website for access to study materials. A Zoom Task Force was also constituted comprising of two senior teachers to address any technical shortcomings faced by the teachers.

Honours/ Distinctions

Dr Ruchira Dhingra received the WOMAN ICON AWARD 2020 instituted by Prateek Special School (for Social Work), Honorary Member, 2020 World International Economic Group (for Social Work) and Dr. B.R. Ambedkar Peace Award 2020 by Asha Kiran Samriddhi Foundation for Social Work.

Dr. Jyoti Sharma was selected by the Government of India for the “Visiting Professor Abroad 2019” and was part of the prestigious Presidential Visit Ceremony, honouring the first visit by the President of India Sh. Ram Nath Kovind in Zagreb, Croatia in March 2019.

Dr. Virat Jolli won best oral presentation on a talk entitled “Monitoring Birds of Himalayas Through Community Participation, India”. At 3rd International Congress on *Advances in Bioscience and Biotechnology* (ICABB 2019), Kyiv, Ukraine on 10-14 July 2019.

Dr. Prabuddh Kumar Mishra was elected as Executive Member (Northern Region), National Association of Geographers, India (NAGI) 2019-20.

Students with distinctions

Sparsh Sharma received the Dr. Usha Aggarwal Trust Scholarship as the B.Com Prog. IInd & IIIrd year who secured the highest % of marks, being above 70% in B.Com (Prog.) Ist & IInd yr. Result

Vaibhav Sharma received Sh. Satpal Bansal Memorial Scholarship for being Best Student of BA Prog Ist Year

Sohini Chatterjee was awarded Mrs. Kusum Vasal Memorial Gold Medal as the topper student of B.Sc. (H) Physics IIIrd year

Yash Vats from B.Sc.(H) Mathematics IInd Year received 10/10 CGPA

Publications

Rana, L. (2020). *Paradigmatic Shifts in Geographical Thought: A Methodological Examination*. Mohan Garden, New Delhi: Concept Publication.

Mishra, P. K., Vanitha Chadha and Shweta, Ed. (2020). *Arthmanthan*. New Delhi: Research India Press. ISBN: 978-93-5171-185-8.

Sharma, Jyoti “*Hindi Bhasha Shikshan: nai taknikein aur pravidhiyan*”, published by INALCO PARIS, ISBN- 978-93-86810-00

Sharma, S., Sharma, M. & Kanojia, R. (2019). Corrosion Inhibition of Morus Rubra Leaf Extract on Mild Steel in Acidic Media. *International Journal of Engineering & Technology* (UAE). Vol 8 (1.10): pp 55-63.

Chaudhary, K. (2019). Deductive Analysis of India, China and Malaysia in Tourism Sector for Capacity Building in Employment. *The International Journal of Analytics and Experimental Model Analysis*. Vol 11(11).

Rana T. S. (2020) Social Fabric And Diff usion Of Agricultural Inventory: A Micro Level Study Of Nayabaas Village, Rohtak, Haryana, *International Journal of Social Science and Economic Research*. Vol 5(5): 1135-1151.

Singh, R. (2019) Artificial Neural Network Learning Rules for Prediction and Clustering: A Comprehensive Study, *International Journal of Research and Analytical Reviews*. Vol 6(2). ISSN No. 2349-5138

Ratnu B. (2020) Social Fabric and Diffusion of Agricultural Inventory: A Micro Level Study Of Nayabaas Village, Rohtak, Haryana, *International Journal of Social Science and Economic Research*. Vol 05(05):pp. 1135-1151.

Research Projects

SERB-sponsored Major Research Project under Mathematical Research Impact Centric Support (MATRICS) scheme entitled “Development of Tuned Estimation Methodologies for Modeling Non Sampling Errors in Survey Sampling”; Reference No. MTR/2019/00032. Principal Investigator: Dr Kumari Priyanka.

Seminars/ Conferences/ Workshops Organised (Selected)

National Conference on “Relationship between Chemical Sciences and Society (RCSS-2020)” on January 16-17, 2020.

Teachers Enrichment Workshop on “Algebra & its Applications” organised by National Centre for Mathematics (A joint centre of IIT Bombay and TIFR, Mumbai), 6-11 May 2019.

A Faculty Development Programme in “Biomathematics” in collaboration with Mahatma Hansraj Faculty Development Centre of MHRD, Hansraj College, University of Delhi, 1 -7August 2019.

An International Webinar by Dr. Alireza Farhadizadeh (Scientist at University of West Bohemia, Pilsen, Czech Republic) on “Mechanical Properties of Thin films”, 23 April 2020.

A National Seminar on “Syncretism in Indian History Through the Ages” sponsored by the Indian Council of Historical Research, 3-4 March, 2020.

An International Conference on *Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases* in collaboration with the Department of Biochemistry, South Campus, University of Delhi, on February 12-13, 2020

Placement Details

Students placed- 39

Companies visiting campus- 6

Outreach and Extension Activities

Enactus Shivaji undertook Project Sana, an endeavour to create reusable sanitary napkins and sell them to economically disadvantaged people. Enactus also launched an application for PCOD patients (enactusshivajiPCOD.apk) as addition to Project Sana.

NSS Shivaji College organised an awareness drive in the Rain Basera on August 20, 2019. The objective of the drive was to gather information about the level of personal hygiene that people maintain in the community. The team also delivered education lessons to the children.

Virasat 2019, a cultural event in collaboration with SPIC MACAY, was organised on October 18, 2019, in the college auditorium. The event was graced by renowned Kathak exponent Padma Bhushan Dr Uma Sharma and Sitar Maestro Pandit Shubendra Rao.

In honour of the Founder of Shivaji College, Eco Club has instituted Dr. Punjab Rao Deshmukh Memorial Running Trophy for Innovative Green Model a Solution for Environmental Issues in 2019. It is awarded for excellence in research and development to solve an environment issue.

The North-East Counselling Cell at Shivaji College organised an Orientation Programme for the newly enrolled students at Shivaji College on August 17, 2019.

On March 4, 2020, Placement Cell of Shivaji College organised the Annual Corporate Festival-Internship and Job Fair in which around 50 companies participated in the one-day event providing students a great opportunity in various fields.

NSS Shivaji College organised a Webinar on May 12, 2020, at 3:00 p.m. on the topic “Cyber Crime, Law and Security” with eminent speakers Dr. Sunaina Kanojia, Associate Professor, Department of Economics

and OSD, Institute of Cyber Security and Law, University of Delhi; Mr. Rakshit Tandon, Co-Founder/Chairman, Info Security Solutions, Pvt. Ltd.; and Ms. Astha Kaushik, Criminal Lawyer.

Polio Eradication Awareness Rally was organised by the NCC unit near the college area

NCC Cadets contributed in the Blood Donation Camp organised by 7DGBN, Kirti Nagar on September 5, 2019.

Library Development

The fully computerised library of the college subscribes to 15 newspapers, 24 magazines and journals. It acquired 2,175 books in the academic year 2019-20. Total number of books available in the library is 78,222 apart from 286 Braille Books. KOHA Library software with RFID system was procured and installed to improve the security of books in the library.

Faculty Strength

Permanent- 98, Adhoc- 97

Financial Allocation and Utilization

Total Grant received during the financial year 2019-20: Rs. 58,50,04,000

Total Expenditure during the financial year 2019-20 (Subject to audit): Rs. 61,37,94,433

Other Significant Information

Several webinars under the aegis of IQAC were organised to address academic demands as well as mental well-being of all stakeholders.

Shivaji College is the only college in the university to provide Accidental/Life Insurance Policy of Rs. 1 Lakh per student at nominal premium.

All the departments of the college held their annual academic programme which provided a platform to the students to interact with eminent dignitaries like Smt. Baby Rani Maurya, Hon'ble Governor of Uttarakhand, Professor D.P. Singh, Chairman, UGC, Padmashri Hansraj Hans, Member of Parliament, Government of India and guitar maestro Pandit Subhendra Rao,.

Several add-on courses were conducted in Shivaji College by the Placement Cell in 2019-20, such as in French, German and Legal Awareness.

The college brings out several publications every year such as *Shivaji Exclusive*- the Bi-Annual E-Newsletter of the college, *The Career Chronicle*- the Placement Cell Newsletter, coffee table books by WDC and Biokemi, magazine by Department of Biochemistry.

A webinar was organised under the aegis of Internal Quality Assurance Cell (IQAC) of Shivaji College entitled "Constructive Living and Education in the Times of Corona Crisis" on May 13, 2020. Prof. Dinesh Singh, Chancellor, K. R. Mangalam University was the invited speaker at the event. In January 2020, the WDC organised an International Conference, entitled *Women's Leadership for Global Peace and Prosperity*, which included the Jijabai Awards Ceremony, an award instituted by the college in 2009 that honours and celebrates those individuals who have empowered and transformed the lives of women by their initiatives at grass-root level.

Eco Club, Shivaji College, organised an *International Seminar on Science, Environment and Spirituality* on 13 September 2019.

The college was awarded the Dr. Meenakshi Gopinath Cup for the “Best Herbal Garden in the University”, in the 62nd Flower Show of the University of Delhi, held on 28 February 2020.

SHRI RAM COLLEGE OF COMMERCE

Major Activities and Achievements

To augment and enhance the skill sets of students and align it to industry expectation, the College launched its first value-added course in August 2018. It launched the Value-Added/Add-on Courses on “Business Analytics using R” (in collaboration with BSE Institute Limited in 2018 and 2019), “Data Analytics using R” (in collaboration with CIMA in 2019) and “Accountancy Star (A-Star) Programme” (in collaboration with CIMA-AICPA in 2020). Several initiatives were taken to enhance the consultancy profile and extend the College’s industry-academia interface. To this end the college entered into MoUs with Indian Corporate Law Service Academy, Manesar and RBI. The College also undertook a research project with Government of India (Competition Commission of India) on regulatory issues pertaining to digital platforms. Shri Ram College of Commerce was awarded two National Resource Centres in Commerce and Economics by the Ministry of Human Resource Development (MHRD). The National Resource Centre will provide databases and learning content to all faculty and researchers engaged in higher education of commerce and economics, and also design and deliver e-learning content for faculty, students and researchers.

Honours/Distinctions:

Ranked No. 1 College of Commerce by “India Today Survey” on India’s Best College for Commerce, 2020.

Ranked No.1 by The Week, in the best college survey in association with Hansa Research 2020.

Students with Distinctions:

Ayushi Goel obtained the 1st Rank in the University in the M.Com examination.

Yashika Gera obtained the 1st Rank in the University in the PG Diploma in GBO.

Mudita Gupta obtained the 1st Rank in the University in the B.Com (Hons.) examination.

Ritika Goel I obtained the 1st Rank in the University in the B.A. (Hons.) Economics examination.

Durbar Dasgupta achieved the 2nd Position, Event Abhivyakti at IIT Bombay.

Tripti Lal achieved the 1st Position, Event Arbitrage at IIM Rohtak.

Akant Bhola obtained the 1st Position, Event Drishtikon 2020 at IIT Delhi.

Ankit Barnwal obtained the 1st Position, Event Niveshak at IIM Shillong.

Divyankshi Puri achieved the 1st Position, Event Corporate Crackers at DSE.

Publications

Kumar Alok (2019) *Financial Accounting*, Singhal Publications, New Delhi, ISBN – 978-81-939940-7-8

Kumar Anil (2019) *Corporate Laws, 9th Edition*, Taxmann, New Delhi. ISBN 978939546262

Jha Aruna (2020) *Auditing and Corporate Governance*, Taxmann Publishers Pvt. Ltd., Delhi

Deepashree (2019) *Business Mathematics and Statistics, 5th revised edition 2020*, Maximax Publishing House”, New Delhi, ISBN-978-81- 931521-4-0,

Thukral, J.K. (2019) *Calculus*, 3rd revised edition 2019, Maximax Publishing House, New Delhi, ISBN-978-81-933418-2-7.

Mittal Naveen (2020) *Concept Building Approach to Income Tax Law & Practice*, Cengage Learning India Pvt. Ltd., Delhi, ISBN-93-5350-256-X.

Jawa Rachna (2017) *E-Marketing*, 3rd Edition, 2017, Singhal Publishing House, New Delhi, ISBN: 978-8193334119

Chadha Reena (2020) *Corporate Laws* coauthored with Chadha Sumant, Scholar Tech Press, MKM Publishers Pvt. Ltd., New Delhi, ISBN 978-81-933917-5-4.

Mittal Arjun (2019), *International Business* Ed.2019, Scholar Tech Press, MKM Publishers Pvt. Ltd., and New Delhi.

Kumar Harish (2017) *E-Marketing*, 3rd Edition”, 2017, Singhal Publishing House, New Delhi, ISBN: 978-8193334119 for B.Com. (Hons.) CBCS curriculum.

Journals

Published 2 Journals viz., Business Analyst: Bi-Annual Research journal and Strides-A Students' Journal of SRCC.

Research Projects

The Competition Commission of India assigned research project “Competition and Regulatory Issues related to the Taxi and Cab Aggregator Industry: With special reference to Surge Pricing and Algorithmic Collusion in the Indian context”.

Seminars Organized

Mr. Bhaskar Ranjan Das, Assistant Director, CIMA, India, “Reimagine Finance”, 9 January 2020.

Dr. Mario B. Curatolo, CEO-Business Management Consultants, Switzerland, “Launching Start-up: The Success Mantras”, 15 January 2020.

Mr. Maneesh Srivastava, Co-founder and Director, Alphavalue Consulting, “Mergers and Acquisitions and Valuations”, 24 January 2020.

Ms. Santosh Sabharwal, Associate Professor, SRCC, “Corporate Spirituality: A New Buzz in Business World”, 15 February 2020.

Conferences Organized

National Conference on “Changing World Scenario and Rethinking Policy Responses”, 16 -17 April, 2019.

International Conference on “Globalisation, Trade and Economic Policy: Way towards Achieving Sustainable Development”, 18 - 19 October, 2019.

Seminar/Conference Presentations

Prof. Simrit Kaur presented a paper entitled “Environmental Sustainability, Trade and Economic Growth in India: Implications for Public Policy”, at International Conference on the theme ‘Globalization, Trade and Economic Policy: Way towards Achieving Sustainable Development’ jointly organised by Kyung Hee University, Seoul, South Korea and Shri Ram College of Commerce (SRCC), at Kyung Hee University, Seoul, South Korea during 18-19 October 2019.

Dr. Aashirwad Dwivedi presented a paper entitled “Economic Geography of Innovation in India” at Asia Convening, organized by Young Scholar Initiative at Hanoi, Vietnam on 11-12 August 2019.

Dr. Santosh Kumar presented a research paper entitled "Decline of Development Finance during Financialization in India" at International Conference -"Financialization and Development in the Global South", Institute of Latin American and Caribbean Studies, University of Buenos Aires, Buenos Aires, Argentina during 26-28 November 2019

Dr. Vandana Jain presented a paper on “Women Entrepreneurship, Innovation and Sustainability: A Comparative Study between India and South Korea” at the two day International conference on, “Globalization, Trade And Economic Policy: Way Towards Achieving Sustainable Development”, organized jointly by SRCC- and Kyung Hee University, held at Kyung Hee University, Seoul, South Korea, October 18-19, 2019.

Dr. Mallika Kumar presented a research paper and Co- Chaired a session entitled “Cooperative Tourism”, at International Conference on Globalisation, Trade and Sustainability, Kyunghee University, Seoul, South Korea, 16 October 2019.

Dr. Dipika Bansal presented a paper entitled ‘Globalization-Accounting Interface: Analysis with Reference to India and South Korea’ at the two-day International Conference on “Globalization, Trade and Economic Policy: Way towards Achieving Sustainable Development” organized by KHU, SRCC, KOMYRA and YUE at Seoul, South Korea, 18-19 October 2019.

Mr. Gaurav Rana presented a paper entitled ‘Formulation of Destination Branding Model for Tourism Cooperatives for Sustainable Development of Tourism’ at “Globalization, Trade and Economic Policy: Way towards achieving Sustainable Development” organised by Kyung Hee University and Shri Ram College of Commerce, held at Kyung Hee University, Seoul, October 18-19, 2019.

Dr. Jaideep presented a paper entitled “Spirit centric approach for creating inclusive societies” at International Academic Conference Creating Inclusive Organizations: Spirituality Innovation and Sustainability organized by Academy of Value Based Management at Said Business School, University of Oxford, UK, 7 June, 2019.

Ms. Karuna presented a paper entitled “Kart to Mart - Game Changer for Indian E-Commerce Industry” in the 7th International Conference on Business, Accounting, Finance and Economics (BAFE) 2019 held at Copthorne Hotel, Cameron Highlands, Malaysia, 4 October 2019.

Ms. Saumya Aggarwal presented paper entitled “Developing Organisational Culture in Higher Education: An Empirical Analysis of University of Delhi” at the International Conference on Globalization, Trade and Economic Policy: Way Towards Achieving Sustainable Development organized jointly by Kyung Hee University and Shri Ram College of Commerce at Seoul, South Korea during 18 - 19 October 2019.

National/International MoUs Signed

National: 5

Ministry of Human Resource Development, Government of India for National Resource Centre in Commerce and Economics under its initiative “Annual Refresher Programme in Teaching (ARPIT)”.

Indian Corporate Law Service Academy, Ministry of Corporate Affairs, Government of India for training newly commissioned Probationary Officers at ICLS Academy, Manesar, Gurugram.

Reserve Bank of India, towards training Grade B and Grade C Officers of RBI.

DCPL Green Ride Private Limited, for promoting Green Ride Bicycle sharing services for its stakeholders.

TrackInvest PLC, for establishing Virtual Investment Lab.

International

Kyung Hee University (KHU), Seoul, South Korea

Kathmandu Model College, Kathmandu Nepal

Tribhuvan University, Nepal

Prithvi Narayan Campus, Nepal

Other Inter-Institutional Collaboration

Collaboration with “Annual Refresher Programme in Teaching (ARPIT)”, Ministry of Human Resource Development for Refresher Courses in Commerce and Economics.

Collaboration with Kyung Hee University (South Korea), KOMYRA (South Korea) and Yangon University of Economics (Myanmar) for International Conference on Globalisation, Trade and Economic Policy: Way Towards Achieving Sustainable Development.

Collaboration with Corporate Executive Simulation (CESIM) for a two-day National workshop on ‘Business Management Simulations’.

Collaboration with AICPA (American Institute of Certified Public Accountants) for Value Added Course in Data Analytics with R.

Collaboration with CIMA (Chartered Institute of Management Accountants) for Value Added Course Accounting STAR. Collaboration of Shri Ram College of Commerce Global Business Opportunity with Institute of Management and Technology, Ghaziabad for Synergasia 2020: The National Management Conclave.

Collaboration of OIP SRCC with World Bank for Workshop on "Open Data and Development".

Indo-Nepal Collaborative Programme.

Indo-Dutch Collaborative Outgoing Programme (Utrecht Business School, Netherlands).

Indo-Nepal Outgoing Programme.

SRCC-Wolverhampton Collaboration Programme.

SRCC-Newcastle University Collaborative Workshop.

SRCC-Rub Collaborative Indo Bhutan Outgoing Programme.

SRCC-University Of Exeter Collaborative Session.

SRCC-University Of Wisconsin Collaborative Programme.

FICCI Youth Entrepreneurship Connect 2020.

SRCC-University Of Melbourne Indo-Australian Collaborative Programme.

Collaboration with Ministry Of Youth for Outgoing Exchange Programme.

SRCC-HU-MH Collaborative Programme.

SRCC-Eada Business School Live Webinar Session.

Collaboration with NITI AAYOG for International Women's Day.

Collaboration with DU- Australian Govt. for Australia Scholarship Award 2021.

Students Under Exchange Programme

Inbound: Organized 13 inbound programmes wherein students participated from Nepal, Wolverhampton University (SRCC- Wolverhampton Program), Newcastle University, University of Exeter, University of Wisconsin, University of Melbourne, Utrecht Business School, etc.

Outbound: Organised 3 outbound programmes students visited Tribhuvan University (Nepal), Lumbini Banaaya Campus (Nepal), Kathmandu Model College (Nepal), Prithvinarayan Campus (Pokhara, Nepal), Utrecht Business School (Plekhanov) and Gedu College of Business Studies (Bhutan).

Placement Details:

Number of companies who visited for campus placements: 58 (for PGDGB0) + 59 (for UG programme)

Extension and Outreach Activities

Project Sanskar: This project focuses on imparting knowledge and quality education for underprivileged children who can't afford to take up tuitions. This project has been a huge success with over 60 students, this year.

Project Vishwas: Project Vishwas is a project aiding the specially-abled people to obtain sustainable employment. NSS SRCC marketed three spices manufactured by the specially-abled under this project, namely, turmeric, chilli and coriander powder.

Project Kali: Under Project Kali, NSS SRCC has adopted a slum at Shadipur. The focus is on making their lives better by making them aware about the important factors for survival such as education, hygiene and sanitation. Sessions on various topics are conducted and in hand practical issues are tackled.

Tatva 2019: The Annual Green Festival organised by Centre for Green Initiatives, SRCC

Project Ankush: With the motto of avoiding food wastage, fighting hunger, Project Ankush is a pilot project of NSS SRCC wherein the extra food left from the PGs, hostels etc. is collected and distributed among the needy on the streets.

Pride March: A pride march was organized within the college campus in order to celebrate the one year anniversary of decriminalising section 377.

Health Checkup Camp: A team of specialized doctors and nurses came from Artemis hospital, Gurgaon with proper equipments of BP, Sugar testing, ENT, etc and conducted a health checkup camp which had a turn-up of more than 110 individuals including Sanskar kids, teachers, staff and students.

Swachhta Pakwaada: On account of Swachhta Pakhwada 2020, the volunteers of Project Kali of NSS SRCC organised an interactive session with the residents of Shadipur slum, aimed at creating awareness on sanitation and hygiene.

Project Virasat: Project Virasat, an initiative by Enactus SRCC, is an umbrella organisation, wherein we aim at reviving dying Indian craft forms.

Project Leher: The biggest micro-pollutant is cigarette butt waste, not plastic. Unaddressed as a waste, each tossed cigarette butt harms 500 liters of marine life. The filter, composed of cellulose acetate, exhibits chemical properties for upcycling after chemical cleansing into a diverse product basket - ranging from harmless polymer products to biodegradable plastic products.

Project 'Aarogya': Project has been started to create awareness about the women personal hygiene and address the issues of inaccessibility, unaffordability and the supply chain problems of sanitary pads in the rural slums. More than 1500 women living in slums in and around Delhi NCR region have been benefited from the effort. The initiative is continuously expanding its reach to more areas in the region and has also helped three women to turn into entrepreneurs.

Project 'Dream Library': Project was started in November, 2019 to promote reading habits among the children of 5 to 15 years of age by setting up physical and digital libraries in Delhi NCR and providing easy access to books.

Project Rivaayat: Started in November 2019, has undertaken the responsibility of empowering the Teracotta potters of Kumhar colony, Uttam Nagar with a population of 600 potters. It is committed to revive this dying art form under the aegis of National award winner & Shilp guru, Giriraj Prasad, Mr. Bhuvnesh Prasad, Mr. Ghanshyam and Mr. Ganga Sahay. The project has showcased the art at various national level exhibitions like 'Dastkaar'.

Library Development

The College has a well-stocked library catering to the needs of 2700+ students at the undergraduate and postgraduate levels. Being fully automated, the library uses Radio Frequency Identification (RFID) technology and database management software LibSys version 7.2. It is fully air-conditioned and has two large reading halls accommodating around 300 students. It is well equipped with all the modern facilities and resources (print and electronic) in the form of CD-ROMs, DVD-ROM, video cassettes etc. and a full-fledged digital library has also been developed. The library has fully computerized its most actively used collection which is searchable through OPAC (Online Public Access Catalogue). It also permits access to the electronic resources provided by DULS (Delhi University Library System) and also provides remote access to e-publications through DELNET. There is a separate and dedicated internet service area installed with 40 computers to facilitate the members to access internet and online resources. The library has a collection of over 80,000 books and there is continuous addition of latest publications in the field of business, economics, humanities and literature to provide a wide range of academic resources to students and faculty members. The College also subscribes to various newspapers and about eighty national and international journals. The library has also adopted the theme of cashless and is progressing towards

paperless environment. The Library opens for eight hours from 8.30 a.m. to 5.00 p.m. However, during examinations it remains open from 8.00 a.m. to 8.00 p.m. for students' convenience.

Faculty Strength

Permanent Faculty: 54, Ad-Hoc Faculty: 71

Financial Allocation and Utilization:

Grant sanctioned in (Rs.): Rs. 45,58,63,000

Utilized in (Rs.): Rs. 36,12,55,813

Other Significant Information

With an aim to reduce reliance on electricity grid, the College implemented an extensive Solar Power project, which has started generation of electricity. Furthermore, to ensure continuous supply of gas, PNG Connection has been undertaken in the college premises.

SHYAM LAL COLLEGE (EVENING)

Major activities and achievements

The College published 'Aspirare', an International Journal of Commerce and Management (Vol.No.6, Sept.2019) (ISSN: 2394-0484 (Print), 2394-6601 (Online)), which has impact factor of 6.629. The IQAC of the College, in collaboration with DSPSR, organized an ICSSR Sponsored XXI Annual International Conference on the broad theme of "Achieving Excellence in Higher Education" on 4-5 January, 2020 at Deen Dayal Upadhyaya College, University of Delhi, New Delhi. Dr. Ramesh Kumar, Associate Professor in Department of Political Science and now Acting Principal, has been honoured for his social service and Gandhian activism. He has been appointed as Honorary Secretary of a renowned Gandhian organization i.e. All India Harijan Sewak Sangh founded 88 years ago by Mahatama Gandhi in 1932.

Publications

Bhardwaj, Ritesh (2019), Mandate 17th Loksabha Election: An Analysis, Samajik Vimarsh, *Council for Social Development*, UGC Care listed Journal 2019 (Group-I), 2019 Sage Publication, ISSN: 2581-6543.

Bhura, Pawan (2020), Developing A Conceptual Model for Examining the Fintech Industry and its Impact on the Efficiency of other Industries in India, *Studies in Indian Place Name (SIPN)*, Vol. 40, Issue 71, March 2020, Impact factor 6.30 (UGC Care list Journal), ISSN 2394-3114.

Kumar, Ramesh (2019), Modinomics Mandi Aur Antim Jan, *Global Multidisciplinary Research Journal* (peer reviewed), 2019 Sept., Vol.4, Issue-1, 16-22, ISSN: 2456-4583

Kumar, Ramesh (2019), Nagrikta kanoon par Gandhiwadi Nazaria, (Hindi), *Global Multidisciplinary Research Journal* (peer reviewed), March 2020, Vol.4, Issue-2, 10-14, ISSN: 2456-4583.

Kumar, Ramesh (2020), Gandhi as Harbinger of Peace, *IME Multidisciplinary Journal* (peer reviewed), Jan-Jun 2020, Vol.14, No.1, 123-128, ISSN: 0974-0716 (print), 2582-1245 (online)

Kumar, Ramesh (2020), Satyagrah: A Gandhian Context, *IME Multidisciplinary Journal* (peer reviewed), Jan-Jun 2020, Vol.14, No.1, 116-122, ISSN: 0974-0716 (print), 2582-1245 (online)

Kumar, Ramesh (2020), Economic Thoughts of Gandhi: Relevance for Progressive India, *Vivekananda Journal of Research* (peer reviewed), Jan-Jun 2020, Vol.9, Issue-1, 11-27, ISSN: 2319-8702.

Rai, Anil (2019), Shiksha Ke Buniyadi Sarokar Aur Gandhi Darshan, *Shodh Sarita*, Vol-6, Issue-22. ISSN: 2348-2397.

Rai, Anil (2019), Urvashi Mein Vyakt Lokjeevan Ke Swar, *Shodh Sanchar Bulletin*, Vol-9, Issue-36, ISSN: 2229-3620.

Rai, Anil (2019), Loktantra Ki Vidambanaon Ke Kavi Raghuvver Sahay, *Shodh Sarita*, Vol-6, Issue-24, ISSN: 2348-2397.

Rai, Anil (2019), Arvind-Darshan Mein Roopantaran Evam Atimanas Ki Avadharana, *Shodh Sarita*, Vol-7, Issue-25, ISSN: 2348-2397.

Sarita (2019), Guru Nanak ke Kavya ka Vishaya Sapeksh Adhyan, *International Journal of Innovation Social Science & Humanities Research*, October-December 2019, ISSN:2349-1876 (Print), 2454-1826 (Online).

Journals

Published by the College: 'Aspirare', an International Journal of Commerce and Management (ISSN: 2394-0484 (Print), 2394-6601 (Online))

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 7

Seminars Organized

Organized a Seminar on "Depository System and Capital Marketing" on 21 October 2019.

Department of Computer Science in collaboration with IQAC organized a one-day Seminar on "Contemporary Developments in Internet" on 21 August 2019.

A one-day Seminar on "Deconstructing Narrative Identities in Indian English Literature" was organized by the Department of English on 23 August 2019.

A one day Seminar was organized by the Department of Hindi in association of IQAC on the topic 'Bhaktikavya ka Samajdarshan' on 28 August 2019.

Department of History has organized a one-day Seminar on "Issues in History" on 31 August 2019.

Conferences Organized

IQAC of the College, in collaboration with DSPSR, organized an ICSSR Sponsored XXI Annual International Conference on the broad theme of "Achieving Excellence in Higher Education" on 4-5 January, 2020 at Deen Dayal Upadhyaya College, University of Delhi, New Delhi.

Seminars / Conferences Presentation

Dr. Anil Rai presented a research paper entitled 'Tagore Ki Drishti Mein Nirala Ka Mahakavitva' in an International Seminar on "Indian Social Science & Humanities Congress 2019" organized by PAILCK & Jadavpur University, Kolkata (W.B.) on 7-8 September 2019.

Dr. Anil Rai presented a research paper entitled '*Vartman Vaishvik Samaj Aur Tulsi Ki Ramkatha*' in an International Seminar on "*Adhunikta Ke Sandarbh Mein Ramkatha Aur Krishnakatha Ka Vaishvik Sandarbh*" organised by Sahityik Sanskritik Shodh Sanstha, Mumbai on 28-29 February 2019.

Dr. Preeti Shukla presented a paper entitled "Kamala Markandaya's Nectar in a sieve: a Narrative of the post-colonial overtones and the ways in which women in rural India evolved after Independence" in a one-day Seminar on "Deconstructing Narrative Identities in Indian English Literature" organized by the Department of English in on 23 August 2019.

Ms. Ila Bhushan Jain presented a paper entitled "*Bharatiya Swadheenta Sangram: Vividh Vaicharik Ayaam*" at National Seminar organized by Shaheed Udham Singh Government College, Mata Majri, Karnal on 5 October 2019.

Ms. Bharti Kumar presented a paper entitled: "IoT: Changing the World", in a one-day Seminar titled: "Contemporary Developments in Internet", organized by the Department of Computer Science on 21 August 2019.

Dr. Bharti presented a research paper entitled 'Energy Variability Leading to Chaos in a Double Well Duffing Oscillator' in the 'National Conference on Advances in Mathematical Analysis and its Applications (NCAMAA-2019)' organized by Department of Mathematics, PGDAV College (University of Delhi) during 8-10 November 2019.

Dr. Bharti presented a research paper entitled 'Transient Chaos Phenomenon in a Double Well Duffing Oscillator' in the 'International Conference on Applicable Mathematics (Theme: Network Science) (ICAM-2019)' organized by Department of Mathematics, Ramanujan College (University of Delhi) during 19-21 November 2019.

Dr. Manish Karmwar presented a research paper entitled "Ghalib and his Literature: A Source of Dilli's History" organized by DSCW, Ferozepur (sponsored by ICSSR), on 13 March 2020.

Dr. Karan Gupta presented a paper entitled "Discerning Semantic Web", in a one-day Seminar "Contemporary Developments in Internet", organized by Department of Computer Science, Shyam Lal College (Eve.) in August 2019.

Dr. Sanjeev Sharma presented a paper entitled "Namami Gange, Legal and Political Dimensions on the theme Politics and Environment" in the one-day Seminar organized by the Department of Political Science, Shyam Lal College (Eve.) on 27 August 2019.

Placement Details

Percentage of students placed: 69 %

Number of Companies visited for campus recruitment: 14

Library Development

The Library has a rich collection of over 51,568 books covering an array of different disciplines. It subscribes 14 Hindi & English Newspapers, 55 magazines and journals. E-resource facility is also available through which students and teachers can access the world's best databases, DULS, E-Journals, E-books and Reports. The library is automated and ensures the availability of current titles by consulting publishers', catalogue, book reviews and publisher websites. Open access facilities for students and staff is available on ground floor and upper library building. The library is computerized with bar coded books and membership cards. Xerox facility is also available for the staff members. The existing ceiling of the number of copies of

a title to be purchased has been increased from five to twenty in view of the new syllabi. The new arrivals are duly notified and prominently displayed.

Faculty Strength

45 (Permanent), 24 (Ad-hoc)

Financial allocation and Utilization

Grant sanctioned in Rs.: 27,72,54,000

Utilized in Rs.: 19,33,25,399

SHYAMA PRASAD MUKHERJI COLLEGE FOR WOMEN

Major activities and achievements

SPM college has introduced four Add-on Courses: Travel and Tourism; Women and Legal Literacy; Journalism and French and German Language in this academic year. In this academic year, 3 teachers were awarded Doctor of Philosophy. In research and publication, our faculty members published more than 36 books and book chapters, more than 30 research articles and presented more than 60 papers at various seminars, workshops and conferences. It had organized 1 Mock Drill on Earthquake and Stampede, 4 National Conferences, 5 UGC Sponsored Seminars, 8 Workshops, etc. series of national and international seminars, lectures, talks, essay competitions, debates, etc. In the field of sport, the students participated in various events of sports and brought many laurels to the college.

Outstanding Honours / Distinctions

Doctoral Degree

Dr. Sanjeev Kumar, Dept. of Political Science was awarded Doctor of Philosophy from University of Delhi.

Dr. Anamika Rai, Dept. of Psychology was awarded Doctor of Philosophy from University of Delhi, Delhi.

Dr. Houshou Suzen, Dept. of Psychology was awarded Doctor of Philosophy from University of Delhi, Delhi.

Awards

The college won the Golden Jubilee Year Cup in the best artistic floral display in eastern and western style in the 62 Annual Flower Show, University of Delhi.

Dr. Amna Mirza from the Dept. of Pol. Science received four prestigious awards namely IARDO Gems of India award: Bharat Manch; Active Young Researcher Award, AR publication; Nook Nayak National Honor by Dr Ambedkar Mumbai Marathi Patrakar Sangh; and Certificate of Excellence for Contribution in Social Welfare: Bharat Nirman Build India Foundation.

Dr. Meenu Agarwal received Distinguished Scientist Award given by Ek Nayi Rah foundation, India.

Dr. Dipti Sharma received Distinguished Scientist Award given by Ek Nayi Rah Foundation, India.

Recognition

Ms. Chetna Gupta was appointed as member of National Advisory Board of the Centre for Positive Philosophy and Interdisciplinary Studies and Society for Positive Philosophy and Interdisciplinary Studies.

Ms. Chetna Gupta was appointed as member of Editorial Advisory Board for Lokayata: Journal of Positive Philosophy and Milestone Education Review.

Dr. Kavita, Assistant Professor (Adhoc) represents the Table Tennis and Wrestling Team as a Team Manager selected by University of Delhi in Khelo India University Games held at Bhubaneswar, Odisha from 22nd Feb. to 01st March 2020.

Dr. Rishiraj Pathak was appointed as member of Governing body (Agrima Society of Arts Delhi)

Dr. Rishiraj Pathak was selected as a Script Writer (Bloomsbury Festival, London, UK)

Dr. Shashwat Kumar, Sociology was awarded ICSSR Post Doctoral Fellowship.

Publications

Aggarwal, M & Sharma, D. (eds). (2019). Contemporary Issues in Integrating Health and Nutrition with the Emerging Areas of Food Technology, Agriculture, Environment, and Allied Sciences" *Krishi Sanskriti Publications*: Delhi, ISBN No: 978-93-85822-87-2

Aggarwal, R & Goel, N. (2019). Goods and Service Tax (GST) and Customs Law. Sultan Chand: New Delhi.

Bhatia, S. (2019). Is Success an Elusive Phenomenon for working women?: An Enquiry. *Indian Journal of Psychology and Education*, Vol 9 (2).

Kumar, Sanjeev. (2019). Ambedkar's Journey Conversion to Buddhism. Contemporary Voice of Dalits. Sage Publication. UGC list no.- 42144. ISSN 2455328X. <https://journals.sagepub.com/doi/abs/10.1177/2455328X18825959>

Mittal, Nupur. (2019). Of Pallus and Pants: Fabricating the New Woman of the New Nation. In *Bad Women of Bombay Films: Studies in Desire and Anxiety*. Palgrave Macmillan.

Sharma, C. (2020). Defining Intelligence: From IQ to Multiple Intelligences. In Ranganathan, N (Ed.). *Understanding Childhood and Adolescence*. Sage: Delhi.

Sharma, S. & Oths. (2019). Saamaaijak Sarokaar Ke Buinayaadee Khabar. *Swaraj Prakashan*: Delhi. ISBN : 978-93-88891-63-9.

Uniyal, Ch. (2019). In Pursuit of Gender Studies: Continuity and Change. *Swaraj Prakashan*: Delhi. ISBN 978-938891-62-2.

Wadhwa, T. (2020). Negotiating Identity and Religion. *London: Routledge*. <https://doi.org/10.4324/9780429347351>

Yadav K & Thareja R.. (2019). Comparing the Performance of Naive Bayes And Decision Tree Classification Using R. *International Journal of Intelligent Systems and Applications*, Issue 12, pp 11-19, ISSN: 2074-904X (Print), ISSN: 2074-9058 (Online).

Journals

Ms. Chetna Gupta was appointed as member of Editorial Advisory Board for Lokayata: Journal of Positive Philosophy and Milestone Education Review.

Dr. Rishiraj Pathak was selected as a Script Writer (Bloomsbury Festival, London,UK)

Research Projects

ICSSR entitled "Status of Reservation Policy: A Study of Higher Educational Institutions in Bihar" Mr. Sanjiv Kumar (Principal Investigator). Amount Rs. 800000/-

Seminars Organized

Two Day National Seminar on "Changing Business Environment in India: Challenges and Opportunities", 28 to 29 February, 2020. Funding agency: UGC

Two Days National Seminar on 'Nationalism and Indian', 6 to 7 September 2019. Funding agency: UGC

Two days national seminar on "Interrogating Gender: Literature , Law and Society " ,9 to 10 August 2019. Funding agency: UGC.

National Seminar on "Psychology of National Integration", 30 to 31 July 2019. Funding agency: UGC

Lecture Series on "Duty Based Ethics: A Comparison between Kant and Bhagavad Gita" on 24 February 2020. Funding agency: ICPR

Conference Organized

Two Days International Conference on "In Dialogue with Mahatma Gandhi"; 8 to 9 November 2019. Funding agency: UGC

National Conference on "Guru Ravidas, Sant Kabir Aur Dr. Ambedkar Ka Saamaajik aur Sahitya ki Yoga, daan" April 14 to 15 February, 2019 sponsored by Ambedkar Foundation, Ministry of Social Justice and Empowerment.

International Conference on "Contemporary Issues in Integrating Health and Nutrition with the Emerging Areas of Food Technology, Agriculture, Environment and Allied Sciences" on 6 April 2019.

Seminar/Conferences Presentations

Amna Mirza presented a paper on "India's Relationship with GCC: Case Study of Significance of Neo Liberal Ideas of Engagement" in the International Seminar on 'India's Emerging Relations with West Asia : A Global Perspective' held at the Centre for West Asian Studies and UGC HRDC Jamia Millia Islamia, 22 to 23 January 2020.

Anamika Rai presented a on "Hindutva: Is it Becoming a New National Identity?" in an International Conference on "Perspective on Peace and Sustainable Development in a World of Conflict" organized by Vivekananda College, University of Delhi, on 13 to 15 February 2020.

Chayanika Uniyal delivered a lecture on "haheed Bhagat Singh: Personality, Ideology and Relevance" in 124th 4-Week Orientation Programme at the Human Resource Development Centre, Jamia Millia Islamia on 7 March 2019

R. Mittal and A. Ahuja presented a paper titled 'Ganit prakriya kaushal: Sewakalin ganit adhyapakon ki samajh' in 'Ganit Shishakshan: Apekshayien aur Chunityon' held in CIE, University of Delhi during 11-12 October 2019.

Nita Arora presented a paper on "Gender Dysphoria in the Classroom: The Exclusionary Perspective" in a National Conference on learning organized by NCTE on 6 December 2019.

Renu Mehta presented a paper entitled "Gender Sensitization: Need of the Hour" at the Seminar on Building Sustainable Future for Youth organized by Jagannath International Management School, New Delhi on 17 January 2020.

Sanjeev Kumar presented a paper on "Ambedkar, Conversion to Buddhism, and the Performativity of Self-Worth: A Transgenerational Network Analysis of Converts in Nagpur" in the International conference: 17th Annual Conference of the European Association for the Study of Religion (EASR), from 25 to 29 July held at University of Tartu, Estonia.

Supriya Sinha delivered invited lectures at National Museum Institute, National Museum, New Delhi on "Ecomuseum and New Museology" as part of lecture series organized for PG student of Museology, on 16 January and 13 February 2020.

Aakash Upadhyay presented a paper on "Climate Change and adaptation to Water Crisis in Upper Rangit Basin of Sikkim Himalaya" at 41st Indian Geography Congress, NAGI, organized by Dept. Of Geography, HS Gaur Central University from 28 to 30 December 2019.

Houshou Suzen presented a paper on "Social Comparison and Self Esteem among College Students" at the International Conference on In Dialogue with Mahatma Gandhi held on 8 to 9 November, 2019 at SPM College.

Other Inter-Institutional Collaboration:

A Mock drill on Earthquake and Stampede was conducted in in collaboration with District Disaster Management Authority (West), on 1 October 2019

A Workshop on 'Geospatial Technologies' was organised in association with Netra Institute of Geoinformatics Management and Technologies Foundation, Dwarka, a premier institute imparting industry-focused, employment-oriented training on 3 to 4 October 2019

A workshop was organized on "Machine Learning with Python" in collaboration with an ISO 9001:2015 certified Cetpa Infotech Pvt. Ltd. On 16 October 2019

A Blood Donation Camp was organized in the college in association with the HDFC Bank on 14 November 2019

The donation drive was organized in collaboration with 'We Clothe Them', an NGO seeking to empower the less privileged by giving them access to one of the basic needs of survival, i.e., clothing on 15 January 2019

A cycle run was organized in association with Petroleum Consortium Research Association (PCRA) to spread awareness about cleanliness of environment on 19 January 2020.

Special Skill Development for Differently abled students was organized by an NGO "Saksham" on 22 October 2020

Placement Details

Number and percentage of students placed on campus: 17 (10.5% of total number of students appeared)

Number and percentage of students placed off campus: 19 (57.5 % of total number of students appeared)

Number of companies/Institutions/Organizations visited for campus recruitment: 20

Extension and Outreach Activities

Swatchhta Rally to create awareness about the importance of cleanliness and sanitation by NCC on 9 May 2019

Haryali Divas to create awareness about use of natural colors, and encourage people to become conscious about the environment on 19 September 2019

Blood Donation Camp in association with the HDFC Bank on 14 November 2019

Cloth Donation Drive was organized in collaboration with 'We Clothe Them', an NGO seeking to empower the less privileged by giving them access to one of the basic needs of survival, i.e., clothing on 19 January 2020

Social Outreach Programme to create awareness about the use of cloth bags and to create awareness about the harmful effects of using plastic bags / polythenes on 19 February 2020

A march past in the neighborhood on the theme of "Save Water" with the students wearing white t-shirt and dark colour trousers with green hair band indicating their unity and commitment toward conservation of the environment. The students carried different placards with slogans encouraging everyone to be environmentally-conscious.

Library Development

The library is fully computerized with a database of about 80,000 books. The college allocate Rs. 15,22,500.00 for library development in 2019-20, out of which the Rs. 12,50,994.62 was spent. The development fund of the library was Rs. 9,37,500.00 of which Rs. 4,51,725.00 was spent. 2056 books were added in this year. 1822 books were purchased and 234 books added through donated collection. The library subscribed to 23 journals, 46 magazines, and 11 newspapers. The library had a total membership of 3966 including 180 teachers. The information centre in the library has 25 computers with internet facility for accessing e-resources. Login passwords are also provided to all members for free access to more than 6000 journals, e-database available through UGC-INFONET. The library has a unique braille books collection. Recorders and laptops with special software are issued to differently-abled students for the entire duration of their courses.

Faculty Strength

Permanent: 83

Ad-hoc: 96

Financial Allocation and Utilization

UGC Grant Sanction: Rs. 57,66,23,703

Additional Grant from Delhi Administration : Rs. 42,00,000

Utilization: 100 %

Other Significant Information

Sports department conducted Kho-Kho and Softball UG Admission Trial on 3 to 5 July 2019 in Sports Ground under the guideline of University of Delhi. The department also participated in Fit India Movement on 29 August 2019 at Rugby Ground, University of Delhi. It also participated in various sports events such as Inter-College of Handball, Hockey, Kho-Kho, Kabaddi, Volleyball, Basketball, Archery, Football and Yoga, etc. at various labels and brought laurels to the college. The college team participated in Delhi State Taekwondo Championship held at Tyagraj Stadium INA, New Delhi from 12 to 13 August 2019 and secured 2nd Position, participated in Handball Inter-College Tournament held at Janki Devi Memorial College from 15 to 17 October 2019 and secured 3rd Position and two players selected for Inter-University Team, participated in Rajiv Gandhi Memorial Hockey Tournament at Shivaji Stadium from 29 to 31 August 2019 and secured 2nd Position, participated in Hockey Inter-College Tournament held at Jesus & Mary College from 30 October to 4 November 2019 and secured 1st Position and 858 girls players selected for Inter-University, participated in Kabaddi Inter-College Tournament held at Daulat Ram College from 31 October to 6 November 2019 and secured 2nd Position and three players selected for Inter-University Team, participated in YMCA Volleyball Tournament held at YMCA Volleyball Court at Jai Singh Road, New Delhi from 13 to 17 November 2019 and secured 3rd Position, participated in Kho-Kho Inter-College Tournament held at Daulat Ram College from 7 to 15 November 2019 and secured 1st Position and three players selected for Inter-University Team, participated in Abhivyanjana Annual Culture Festival (Yoga) Competition held at Gautam Buddha University, Noida on 14 October 2019 and team secured 3rd Position, participated in West Delhi District Yoga Championship held at Akshay Public School, Sec-16A Dwarka on 21 to 22 November 2019 and secured 2nd & 3rd Position in different event, Kho-Kho, Hockey and Football Team participated in Bharti Cup Championship held at Bharti College, New Delhi from 6 to 08 January 2020 and Kho-Kho Team Secured 1st Position and Hockey Team Secured 2nd Position respectively; aerobics and yoga team participated in Invitational Inter-College held at Kalindi College on 10 February 2020 and Aerobics Team Secured 1st Position, aerobics and yoga team participated in Erobern Invitational Inter-College held at Miranda House College from 11 to 13 February 2020 and Aerobics Team Secured 1st Position and Yoga Team Secured 2nd Position, participated in Delhi State Archery Championship held at Yamuna Sports Complex from 19 to 23 February 2020 and Secured 1st Position in Team Event; Volleyball Team participated in AAHVAAN Invitational Inter-College held at Delhi Technological University, Delhi from 21 to 23 February 2020 and Team Secured 3rd Position, Yoga team participated in Inter-College Sport Fest held at Zakir Husain College on 22nd Feb. 2020 and Team Secured 3rd Position, participated in Baba Deep Singh Hockey Tournament at S.G.T.B Khalsa College from 3 to 9 March 2020 and Team secured 1st Position.

On the 62nd Annual Flower Show, University of Delhi, held on 29 February 2020, the college won the Golden Jubilee Year Cup in the best artistic floral display in eastern and western style. Students of the college also won many accolades in the following categories including: 1st prize in Flower Arrangement in Eastern style; 2nd and 3rd prize in Flower Arrangement in Western style- 2nd and 3rd prize; 3rd prize in Roses arrangement; 3rd prize in Marriage decoration; 2nd prize in table decoration.

The college also won many prizes in the category of cut flowers and in the Mali category of cut flowers and garland. The Mali of our college Mr. Bhagwan Singh was conferred 'the Best Mali Award'.

Ms. Seema, Aakash Upadhyay and Maansi Malik of Geography Department, mentored a team of four students each in Geographer Youth Conclave 2020, on the theme "Sustainable Urban practices", Organized

by Department of Geography, Shaheed Bhagat Singh College, University of Delhi. The mentors and students were awarded a research experience of six months.

SRI AUROBINDO COLLEGE (MORNING)

Major Activities and Achievement

The college is moving towards its golden jubilee year of its establishment. It has moved in tandem with the wheel of time and year after year it has worked to usher incredible performances to stand amongst one of the well-known and sought after colleges of the University of Delhi. The students have brought academic laurels to the college and have secured top positions in the University in various courses. Apart from academic accolades the college has many societies that are doing very well for the welfare of the students. The cultural societies, Sports activities, NCC Unit of the college, Equal Opportunity cell, Aakaraya, Mimansa are doing extremely well in the overall development of the college. The western dance society of the college, Crunk has bagged 40 prizes in this academic session and has been declared the best one by DU Beats. Other cultural societies that have won more than 25 prizes are Moksh (the dramatic society), Sage, Bandwagons, Taleem, Trivia, 3Ps, Salvation. The college Sports team has also won 3 gold medals and a number of silver and bronze medals in a number of activities.

Publications

Published a research paper 'Arbuscular mycorrhizal fungi – The Potential Soil Health Indicators.' in *Soil Health (Giri and Verma eds) Springer Nature, Switzerland AG, 2020.*

Published a research paper, 'Characterization of biodiesel from waste cooking oil – Fatty acid methyl ester (FAME) profile.' in *JETIR7 (4): 374-378 (ISSN: 2349-5162); UGC Approved – Journal No: 63975, 2020.*

Published a research paper titled 'The Evolution of Short Stories in America.' in "International Journal for Scientific Development and Research"

a research paper titled 'Kanyadaan-Its Origin and Relevance.' in "International Journal for Scientific Development and Research"

Published a paper titled 'Surface stress and lattice dynamics in oxide ultrathin films', in collaboration with Jörg Prempfer, Florian O. Schumann, Sebastian Polzin, Krassimir L. Kostov, Veronica Goian, Dirk Sander, Wolf Widdra, *Phys. Status Solidi B (2020), 1900650*

Published a research paper titled 'Structural and magnetic behavior of Cr₂Co(1-x)Cr_xAl inverse Heusler alloys.' in collaboration with Manisha Srivastava, Guru Dutt Gupta, Priyanka Nehla, and R. S. Dhaka, in *AIP Advances 10, 055118 (2020)*

Published the paper in the Peer reviewed journal *The European Physical Journal Plus*, titled "Prediction of band-head spin of triaxial super-deformed bands using the modified VMI model", in collaboration with V. S. Uma, Alpana Goel and S. K. Mandal 134, 72 (2019).

Published a Paper in *European Physical Journal* titled "Revisiting the role of n-p residual interaction and the Newby shift in K=0 bands in the odd-odd actinides" with Alpana Goel in 2019.

Published a research paper titled 'Composites for Lead Ions Removal from Aqueous Solutions' in collaboration with Jin Suk Chung and Seung Hyun Hur, Graphene in *Applied Science 9 (14), 2925, 2019;* ; <https://doi.org/10.3390/app9142925>.

Published a research paper titled “Implementation of IFRS in India: Its Opportunities and Challenges” in *Review of Research, Vol. 8, Issue-5* (ISSN: 2249-894X) in 2019

Seminars Organized

Two day national seminar entitled “Emerging Trends in Electronics and Computer Technology” was organized on 27 – 28 February 2020, sponsored by UGC.

Webinar entitled “Revitalising Psychological and Physical Wellbeing during Lockdown” on 27 April 2020.

Webinar entitled “Investment Bouquet for the Indian Investor” on 21 May 2020.

Webinar entitled ‘Demystifying Mutual Funds Landscape’ on 5 June 2020.

Webinar entitled “The New World Order: Preparing Professionals for a Post Pandemic Scenario” on 13 June 2020.

Placement Details

No. of students placed: 550 (250 got internship)

No. of company visited campus: 25 companies

Library Development

1000 BOOKS, 150 E-books, 10 Journals (P+O), 40 Periodicals with E-library (105 weblinks), 20 plus software, 1000 plus digital diaries issued to users.

Faculty Strength: 130

Financial Allocation and Utilization

Grant sanctioned: Rs. 190700000

Utilized: Rs. 331100000

SRI AUROBINDO COLLEGE (EVENING)

Major Activities and Achievements

The college celebrated its third 860rgani meet, ‘YAADGAR’ 2019- 2020 on 15 February 2020. College library organized Gyan Sangam Book fair cum Exhibition within the College library on 21 January, 2020 with an objective to enhance collection of books in the Library. The college undertook two projects namely PROJECT ISHTA – ‘Initiative for Sanitation and Hygiene Towards All’ – a project on woman entrepreneurship for hygienic sanitation and The PROJECT ANNAPOORNA – Aimed at empowering women through Social Entrepreneurship. Another program named Khanak was organized on 10 February 2020. It was the first event of the newly founded Gender Champions, the gender-inclusive society of Sri Aurobindo College (Evening).

Honours/Distinctions

Dr Sumati Varma, a member of the Executive Board of Project X – Culture since 2014, was given the Global Educator Award for her contribution to the project in the current year. She received the Best Paper Award at the 6th Biennial International Conference of Indian Academy of Management (INDAM) ARCHITECTING INDIAN MANAGEMENT SCHOLARSHIP IN THE ERA OF DISRUPTION, 1-3 January 2020.

Dr. Rajnikant Goswami successfully completed a 12 Week NPTEL Online Course on the topic ‘The Nineteenth-Century English Novel’ during Jan-Apr’ 2019 with 85% marks and was awarded Silver Medal with Elite grade. He successfully completed a 12 Week NPTEL Online Course on the topic ‘Short Fiction in Indian Literature’ during Jul-Oct’ 2019 with 86% marks and was awarded Silver Medal with Elite grade.

Mrs. Shweta Marwah was awarded the best paper award “Sustainability in Education sector: Case Study Analysis of University of Delhi”, 23rd August 2019, PHD Chamber of Commerce and Industry. She also received the Best paper award “Consumer Perception for herbal products: An Opportunity for the FMCG Sector in the post Covid Period”, 10th May 2020, Organized by FMS, Mohanlal Sukhadia University, Udaipur, Rajasthan.

Shubhika Singhal, BCom (hons) VI semester and Anjali Chaudhary, BA (Prog) Award: Member, best team 1920-21, X Culture International Collaborative Project, University of North Carolina, USA.

Publications

Dr Kusumlata Submitted chapters to IONOU for their M.A. in English and BA English Honors Course books. She had also published book titled “Pulsating Rhythm of Life” A Reading of Sylvia Plath By Signorina publications, Delhi

Mishra, Akhilesh. (2019). Vedic Wisdom to Corporate Excellence: A Paradigm Shift and Holistic Perspective. *Research Paper published in the Global Journal of Enterprise Information System*. Vol 11, Issue 3, Jul- Sept.

Singh, Arnan. Covid-19 and Exodus of Migrants: Inference from Housing Prices in Delhi-NCR. *Asiatic Society for Social Science*. June 2020 issue.

Nahar, Deep Aman (2019). Importance of Organizational Behavior and its Relationship with Managers, Employees, and Teams. *Research Journal of Multidisciplinary*, Vol.4, Issue-04, April, 2019.

Journals

“Commercia” is the annual departmental magazine of the Department of Commerce.

Research Projects

“Psychometric Evaluation in Police Recruitment” Bureau of Police Research and Development from December 2018 to October 2020

Seminars Organized

Seminar on 19/02/2020 on ‘Debating Anthropocene’ on 19 February 2020

‘हिन्दी साहित्य परिषद’, श्री अरविंद महाविद्यालय सांध्य ने आठ नवंबर 2019 को महाविद्यालय के सेमिनार हाल में देश के दो लब्ध प्रतिष्ठित विद्वानों के व्याख्यान का आयोजन किया ‘वर्तमान समय में हिन्दी’ विषय पर दिल्ली

विश्वविद्यालय से संबद्ध और प्रख्यात आलोचक प्रो. अजय तिवारी ने व्याख्यान दिया और 'हिन्दी की प्रासंगिता' विषय पर पटलिपुत्र विश्वविद्यालय से संबद्ध एवं सुपरिचित लेखक तथा आलोचक प्रो. कर्मन्दु शिशिर ने व्याख्यान दिया दोनों ही व्याख्यान अत्यंत ज्ञानवर्धक, विचारोत्तेजक, रोचक, उपयोगी और विस्तृत फलक को समेटे हुए थे

Conference/workshops Organized

Workshop entitled "Goal Setting and Motivation" on 6 September 2019

Workshop entitled "Counselling and Mindfulness" on 24 January 2020

Workshop on "MSE and Case Study" on 11 February 2020,

Two National Conferences with PHDCCI, in August 2019 and February 2020

International Conference with DSPSR in Jan.2020

Two workshops, first entitled "AECC: Content and Pattern" on 5 November 2019 and the second entitled "Streaming, Content & Pattern of English Language" on 7 November 2019 organized in the college.

Workshop on "Creative Writing" in collaboration with UDAAN under the Aegis of IQAC was organized on 17 February 2020. The invited speaker for this workshop was Dr. Rashmi, a renowned author of Kalam's Biography and Atal Jeevan Gatha.

The Department of Music organized Workshop on "Raag" Prastuti Mein Alanar Ka Mahatva" on 4 February 2020 in the seminar hall.

Seminar/Conference Presentations

Dr. Kusum Lata delivered lecture entitled 'Use of Literary Devices in Poetry' to lecturers in English in Kendriya Vidyalayas in all India teacher training programme; 'Relevance of Shakespeare Today' in LBS Rashtriya Sanskrit Sansthan, Delhi; Judged debate in 'Ek Bharat Shreshtha Bharat' all India festival of Kendriya Vidyalayas; Judge and Ramjas foundation debate in October 2019 and Judged inter school debate at St Mark's Janakpuri in august 2019

Dr. Akhilesh Kumar Mishra secured second position in presenting a Research paper in the National Conference on SDG – 4 on the New Education Policy: Aligning Industry and Policy Ecosystem for Quality Education, at the PHD Chamber of Commerce and Industry, New Delhi, Sponsored by UGC, the National Conference was held on 5 February, 2020.

Dr. Amar Singh presented a paper entitled "Neuro Linguistic Programming and effective Communication" at the Workshop on Building Business Communication Skills organized by University Business School (UBS), Panjab University, Chandigarh held on 1 April 2019

Dr. Pragyendu chaired scientific session in 45th National Annual Conference of Indian Association of Clinical Psychologists entitled "Enhancing Mental Health: Exploring New Dimension" organized by IACP, India, held at NIEPVD, Dehradun on 25-27 May 2019; chaired scientific session in National Conference entitled "Psychology of National Integration" organized by Shyama Prasad Mukherjee College, University of Delhi on 30-31st July 2019

Dr. Mahesh kumar darolia chaired scientific session in 45th National Annual Conference of Indian Association of Clinical Psychologists entitled "Enhancing Mental Health: Exploring New Dimension" organized by IACP, India, held at NIEPVD, Dehradun on 25-27 May 2019; chaired scientific session in

National Conference entitled “Psychology of National Integration” organized by Shyama Prasad Mukherji College, University of Delhi on 30-31st July 2019

Dr. Monika Rikhi delivered lecture and conducted workshop at various institutions/organizations; chaired scientific session in National Conference entitled “Psychology of National Integration” organized by Shyama Prasad Mukherjee College, University of Delhi on 30-31st July 2019.

Dr. Renu Rajan participated as an Observer in a National Seminar on “Aesthetic Manifestations of Raga and Tala in Indian Classical Music: The Contemporary Scenario” organized by the Faculty of Music and Fine Arts, University of Delhi, Delhi, on 22nd and 23rd October 2019.

Dr. Sumati Varma, Best Paper Award at the 6th Biennial International Conference of Indian Academy of Management (INDAM) ARCHITECTING INDIAN MANAGEMENT SCHOLARSHIP IN THE ERA OF DISRUPTION 2020, 1-3 January 2020.

Dr Veena Gandhi, Member of the Committee under the chairmanship of Dr Manju Mukul Kamble for Syllabus Drafting and Revision as per LOCF, Hindi Department, University of Delhi. She contributed actively in the drafting and revision of eight Courses for BA Hons and BA Prog Hindi.

Dr Jyoti Kulshrestha, IIIrd Position Innovative Higher Education: Let Sustainable Development Goals Innovate the Inculcation Practices as Corollary to Time, National Conference on SDG4- Aligning Industry & Policy Ecosystem for Quality Education, PHD Chamber of Commerce and Industry, New Delhi 5.02.2020

MS Leena Chaabra, Presented a paper in an International Conference on “Outsourcing in India: The Dynamics of Choices, Vulnerability and Fallout” hosted by International Conference for Academic Disciplines, in the Harvard University premises, USA, 28 May 2019; chaired a session on “Banking Sector Regulations and Asset Pricing” hosted by International Conference for Academic Discipline, in the Harvard University premises, Boston, USA, 28 May- 1 June 2019.

Dr. Sujit Ram Tripathi, Department chaired scientific session in 45th National Annual Conference of Indian Association of Clinical Psychologists entitled “Enhancing Mental Health: Exploring New Dimension” organized by IACP, India, held at NIEPVD, Dehradun on 25-27 May 2019.

Dr. Shailendra Kumar Sharma chaired scientific session in 45th National Annual Conference of Indian Association of Clinical Psychologists entitled “Enhancing Mental Health: Exploring New Dimension” organized by IACP, India, held at NIEPVD, Dehradun on 25-27 May 2019; chaired scientific session in National Conference entitled “Psychology of National Integration” organized by Shyama Prasad Mukherjee College, University of Delhi on 30-31 July 2019;

Mrs Shweta Marwah, Best paper award “Sustainability in Education sector: Case Study Analysis of University of Delhi”, 23rd August 2019, PHD Chamber of Commerce and Industry ; “A study of consumer Perception for Herbal Products: An empirical analysis”, International conference on Global Vision 2030: Challenges and Opportunities on Jan 4-5 2019 organized by Deen Dayal Upadhyaya College, DU ; “Consumer Perception for herbal products: An Opportunity for the FMCG Sector in the post Covid Period”, International Conference Organized by FMS, Mohanlal Sukhadia University, Udaipur, Rajasthan.

Institutional collaborations

Project X-Culture is a large-scale experiential learning collaborative exercise initiated by the University of North Carolina USA. Students from Sri Aurobindo College (Eve) have been selected for the project under the mentorship of Dr Sumati Varma since 2013.

Dr Sumati Varma, a member of the Executive Board of Project X – Culture since 2014, was given the Global Educator Award for her contribution to the project in the current year.

The Project is designed to provide students with an opportunity to gain first-hand experience in international virtual collaboration. Working in global virtual teams, the students developed a business proposal for one of half a dozen international companies as partners and provided a detailed plan for implementing the idea.

As part of the project, the students participated in numerous live webinars with their client company owners or CEOs, where they had an opportunity to learn more about the business, its history and products, ask questions, and receive feedback on their suggestions.

The X-Culture Project is a platform for high-quality research on dynamics and performance in global virtual teams. The longitudinal multi-level data collected as a part of the project are used to study dynamics and performance in international workgroups. The convener of the project is Dr Sumati Varma.

Placement Details

Number of students placed: 31

Percentage of students placed: 6.4%

Number of Companies visited for campus recruitment: 12

Extension and Outreach Activities

DAAN Utsav- Organized by the NGO “Guzarish” saw huge participation by . members of Enactus. DAAN Utsav is focused at the collection of books and stationery for the needed and underprivileged.

Gyandeep Summer Camp: The NSS team of SAC-E in collaboration with Gyandeep Growth Foundation, an NGO organized a Summer Camp from 15 May to 14 June 2019; in which they provided remedial classes to the children.

Water Crisis March: NSS-SACE 864rganized a march on 29 July 2019 towards a nearby slum, to create awareness among the residents regarding water conservation.

No Plastic Week: In collaboration with IPCA 864rganized a “No plastic week” from 26 August to 05 September 2019 during which the volunteers collected plastic waste and took it for recycling.

Swachhata Hi Sewa Campaign: A Cleanliness Drive was launched

On 28 September 2019 NSS-SACE started an awareness rally called Happy Wheels, a cycle rally to spread awareness on the benefits of cycling for both health and environment.

Walk a talk: Raising awareness among residents of Begumpur about garbage disposal and ways to recycling.

National Girl Child Day: On National Girl Child Day 24 January, collaborated with the Rotaract Club and the Women Development Cell of our college to organize Nukkad Natak, speeches and rally on the safety of the girl child.

Blood Cancer Awareness Day: NSS units of both Sri Aurobindo College Morning and Evening Colleges organized an awareness programme with the motto “you have the power to gift a life”, which provided people with an opportunity to register themselves as potential Stem Cell Donors.

Library Development

Well-equipped with more than 44,000 volumes of books of which more than 1300 volumes were added during the academic year 2019-2020. College library organized Gyan Sangam Book fair cum Exhibition within the College library on 21 January 2020 with an objective to enhance collection of books in the Library. 17 book sellers and Publishers participated in the event. The college library provided and uploaded subject wise E-books/ E-Resource links, including important links of e-resources provided by the UGC, on the college website. It provided registration links to enable the faculty members to access e-resources through the Delhi University Library System. Remote Access of N-LIST e-resources: College Library subscribed to the membership of NLIST e-resources and provided remote login access facility of N-LIST e-resources.

Faculty Strength

Full time faculty: 73

Financial Allocation and Utilization

Grant Sanctioned: Rs. 246143000/-

Grant Utilized: Rs. 244652656/-

Other Significant Information

The College is ranked by NIRF in overall and college discipline. With a good score of three broad parameters of teaching, Learning and Resources, Graduation Outcomes and Outreach and Inclusivity the college has maintained its position in top 150 institutions for the past three years.

The College was awarded B+ grade by NAAC.

SRI GURU GOBIND SINGH COLLEGE OF COMMERCE

Major Activities and Achievements

During the session 2019-20, our students did us proud academically as well as in sports. Shivam Arora of the Department of Business Economics secured the first position in the University in the first year. Parth Makhija won the gold medal at 14th Asian Shooting Championship held at Doha, Qatar. The faculty also won accolades. Dr. Kawal Gill received the Distinguished Women Award in Commerce from Venus International Women Awards; Dr. Megha Ummat, received Commendable Research Award from Delhi Technological University and other faculty members also were recognised for their research efforts. Dr. Kajleen Kaur, and the student team mentored by her won the Best Paper award in the Delhi Region in the RBI Policy Challenge 2020 and stood second in the Zonal round. The college organised the fifth Biannual Conference and a NAAC sponsored National Symposium. We entered into fruitful collaborations by signing MOU(s) with University of Melbourne and Ball State University and hosted a ten-week professional development programme - Afghan Faculty Forum For Enrichment Program (AFPECT).

Honours/ Distinctions

Dr. Kawal Gill, Associate Professor, Department of Commerce, received the Distinguished Women Award in Commerce by Venus International Women Awards (VIWA)

Dr. Megha Ummat, Assistant Professor, Department of Computer Science, received the Commendable Research Award from Delhi Technological University, for a publication in Web of Science Journal.

Dr. Kajleen Kaur, Assistant Professor, Department of Economics mentored a team of students who participated in the RBI Policy Challenge 2020 and won the Best Paper award in the Delhi Region and stood second in the Zonal round (North Zone) of the same.

Dr. Tarvinder Kaur, Assistant Professor, Department of Punjabi, received the Writer Award 2019-20 by Sachche Paatshah Patrika Award 2020.

Dr. Satvinder Kaur, Assistant Professor, Department of Commerce and Ms. Riyanka Jain, Assistant Professor, Department of Business Economics received the best paper award for their paper titled 'Study of Delhi University colleges ranked in top 100 by NIRF' at international conference on Achieving Excellence in Higher Education jointly organised by Delhi School of Professional Studies and Research (DSPSR), Deen Dayal Upadhyaya College and Shyam Lal College (Evening), University of Delhi.

Dr. Renu Gupta, Assistant Professor, Department of Commerce received the best paper award for her paper titled 'Role of Industrial Visits in Enhancing Learning Quality of Commerce and Business Students' at international conference on Achieving Excellence in Higher Education jointly organised by Delhi School of Professional Studies and Research (DSPSR), Deen Dayal Upadhyaya College and Shyam Lal College (Evening), University of Delhi.

Students with Distinctions

Shivam Arora of the Department of Business Economics secured the first position in the University in the first year securing a CGPA of 9.23.

Parth Makhija won the gold medal at 14th Asian Shooting Championship held at Doha, Qatar in 10 mtr. Air Rifle shooting.

Akash Verma won the gold medal at the Inter University Shooting competition in 10 mtr. Air Rifle shooting.

Divyansh Sharma, a final year student of B.Sc. (Hons.) Computer Science, interned at DRDO- and worked on the project- "Fluorescence Spectrum of Chemicals using Machine Learning". The project was selected by ISRO for their GAGANYAAN MISSION 2022.

Publications Total Number

Journal Articles 11, Chapters in Books-3 and Books-5

Dodrajka, S. (2020). Online Marketing: Measuring Indian Urban Customer Perception towards Online Shopping Sites. *International Journal of Management & Business Studies*, 10(1).

Goyal, N. and Sharma, G.P. (2019) Unveiling cryptic ecological functions: prospects in plant invasions. *Tropical Ecology*, 60, 1-5.

Gupta, R. (2019). Analysing conduct of banking segments in India with special reference to priority sector lending. *Aayam*, 9(1), 13-23.

Kaur, G. (2019). Indian entrepreneurial landscape: The role of start-ups. *MAIMS Journal of Management*.

Kaur, S. (2019). Green Library: An Overview. *World Journal of Engineering Research and Technology*, 6(1), 108-113.

Kaur, T. (2020). Ki Mein Yug Nu Jandi Si. *Aabru*

Kaur, U. (2019). Digi Locker –Indian Digital Locker, How much the youth is actually using it? *International Journal of Recent Technology and Engineering*, 8(4)

Malhotra, R., and Khanna, M. (2019). Dynamic selection of fitness function for software change prediction using particle swarm optimization. *Information and Software Technology*, 112, 51-67.

Malhotra, R., & Khanna, M. (2019). Software Change Prediction: A Systematic Review and Future Guidelines. *e-Informatica Software Engineering Journal*, 13(1).

Nanda, A. (2020). Towards A Sustainable Old Age: How Far? *International Journal of Research and Analytical Reviews*, 7, 699-712.

Journals

The college published the tenth volume (April 2019-March 2020) of its Journal- *Journal of Business Thought*, that included six original research articles, of which two were authored by foreign university authors, namely; Prof. Daniel Broby from Scotland, United Kingdom and Dr. Harminder Singh, Associate Professor from Deakin Business School, Melbourne, Australia.

Research Projects

BSE-Centre of Excellence, SGGSCC, 2019, Municipal Solid Waste Management; Amount: Rs. 1,00,000

BSE-Centre of Excellence, SGGSC, Impact of Social Media Applications on Young Children in Delhi, 2019, Rs. 1,00,000

BSE-Centre of Excellence, SGGSCC, Financial Inclusion of Underprivileged - How Inclusive : A Case Study of Delhi NCR, 2019, Rs. 1,00,000

BSE-Centre of Excellence, SGGSCC, Exploring Challenges faced by the international Students Community and Devising a Web-Based solution- An Empirical Study Based on University of Delhi, 2019, Rs. 1,00,000

ICSSR, Research Project, 2019. Amount: Rs. 1,50,000

Seminars Organized

Paul H. Jensen, Deputy Dean (Faculty), Faculty of Business and Economics, University of Melbourne on “Innovation and the Global Patent System”, 21 August 2019.

Prof. Sanjay Dhamija, IMI delivered a talk during seminar on “How to Write a Case Study” for faculty, 16 September 2019.

Mr. Sandeep Giyyan, Jethani, Director of ATS Infotech Pvt Ltd and founder of Mentorrubby.Com and his coordinator Mr. Parveen Badoni, Business Development Manager, ATS Infotech Pvt Ltd. Microsoft Certifications, 21 October 2019.

Mr. Pritam Sharma, Associate Professor, Ramjas College, University of Delhi, Dr. (Ms.) Prem Singh, Professor (Retired), Department of Hindi, University of Delhi and Mr. Nipun Malhotra, Founder and CEO, Nipman Foundation. “Ensuring Inclusion of the Disabled in the Mainstream: Issues and Challenges”, 22 October 2019.

Conferences Organized

“Accreditation and Ranking: A Pathway to Excellence”, in association with the National Assessment and Accreditation Council (NAAC), 26 September 2019.

Achiever’s United ’20, on 13 March 2020, with Honourable Shri Nitin Gadkari, Minister of Road Transport and Highways of India as the Chief Guest for the event

“Ensuring a Sustainable Future: Role of Entrepreneurship, Innovation in Management Practices, and Circular Economy” in collaboration with Sydney Business School, University of Wollongong, Australia, 6 to 7 March 2020.

Seminar/Conference Presentations

Dr. Satvinder Kaur and Dr. Riyanka Jain, presented a paper entitled ‘Study of Delhi University colleges ranked in top 100 by NIRF’ at the ICSSR sponsored XXIst International Conference jointly organised by Delhi School of Professional Studies and Research (DPSR), Deen Dayal Upadhyaya College and Shyam Lal College (Evening), University of Delhi. The paper was also adjudged as the Best Paper.

Dr. Meenu Gupta was invited for a talk on ‘Forensic Accounting and Auditing’ as part of a training program on ‘Document Examination for Criminal Justice Functionaries and Forensic scientists’ by Lok Nayak Jayaprakash Narayan National Institute of Criminology and Forensic Science.

Dr. Renu Gupta presented a paper entitled ‘Role of Industrial Visits in Enhancing Learning Quality of Commerce and Business Students’ at the ICSSR sponsored XXIst International Conference jointly organised by Delhi School of Professional Studies and Research (DPSR), Deen Dayal Upadhyaya College and Shyam Lal College (Evening), University of Delhi. She received the Om Prakash Award for best paper presentation for the same.

Dr. Renu Gupta and Dr. Gurdeep Kaur, presented two papers titled ‘The entrepreneurial acumen of women in beauty and wellness sector of India: A case study approach’ and ‘Successful women entrepreneurs in the so-called male bastion: Examining factors and lessons drawn’ presented in a conference on ‘Role of Women Entrepreneurs in Socio-Economic Development of India’ organised by Bharati College.

Dr. Renu Gupta presented a paper entitled, ‘Entropy in Indian banking: Measuring competition via Bodenhorn measure of rivalry’ at the Vth Biennial International Conference on the theme ‘Ensuring a Sustainable Future: Role of entrepreneurship, Innovation in management practices and circular economy’, organised by SGGSCC in association with Sydney Business School, University of Wollongong, Australia.

Dr. Vaibhav Puri, presented a paper jointly authored with Prof. Simrit Kaur and Ms. Sanchita Joshi entitled ‘Is Infrastructure the ‘Missing Block’ in much debated Gender Puzzle? A Prescriptive Approach for measuring Sustainable Development in India’ in the Vth Biannual International Conference, ‘Ensuring a Sustainable Future: Role of entrepreneurship, Innovation in management practices and circular economy’, organised by SGGSCC in association with Sydney Business School, University of Wollongong, Australia.

Dr. Tarvinder Kaur, presented a paper titled ‘Guru Nanak Dev Ji di Bani vich Jeevan ate Maut da Sankalp’ in the International Conference on Teaching and Legacy of Sri Guru Nanak Dev Ji organised by Sri Guru Nanak Dev Khalsa College, University of Delhi.

National/ International MoUs Signed

Ball State University, U.S.A

BRICS CCI for conducting add on courses in collaboration.

BSE Institute Limited for pursuing activities pertaining to Centre of Excellence.

Saraswati Accountants Software Pvt. Ltd. for providing training in Tally ERP9

Other Inter-Institutional Collaborations

Hosted a ten week professional development programme - The Afghan Faculty Forum For Enrichment Program (AFFECT) from 22 January to 11 March 11 2020 in collaboration with the Ball State University, Indiana, USA.

The Entrepreneurial Cell of the College organised and conducted a Digital Marketing Course for the students in collaboration with the Ministry of Small and Medium Enterprises.

Placement Details: 212 students placed

Extension and Outreach Activities

“EMPATHISERS: The Environment Crusaders”, a campaign against the use of single-use plastic was initiated by the Department of Business Economics alongwith NCC, NSS, Enactus, Virtuoso, Student Union and Alumni Association of the college. Youth Icon and Green Ambassador, Mr. Daler Mehndi launched the initiative on 30 September 2019 along with IAS Varsha Joshi (MCD, North Delhi Commissioner), IAS officer Ms. Ira Singhal (Deputy MCD North Delhi Commissioner), Mr. Avtar Singh (Mayor of North Delhi) and Ms. Sanjam Cheema (Head of Clean Ganga Campaign).

Ecosperity-The Environment Club of the college under the initiative “Paraspar organised the planation of 550 saplings on the occasion of 550th Birth Anniversary of Guru Nanak Dev Ji.

The NSS team on 14 August 2019, conducted a series of events as part of the observance of ‘Swachhta Pakhwada’. A cleanliness drive was conducted in the college premises. This was followed by a slogan writing competition. The day concluded with an oath taking ceremony where each and every member of the team undertook an oath to serve the society with utmost compassion, abiding by the motto of NSS – ‘Not me but you’.

Republic- The Political Science, Women's Development Cell and Foreign Students Society jointly organised a Voter ID Campaign for facilitating student registrations for voter IDs.

Rotaract club of the college in collaboration with Navjyoti India Foundation helped set up Sankalp 2.0 - Digital Literacy Centre. The club also propagated the “Organ for Life” campaign in association with Organ for Life Foundation. A blood donation camp in the college was also organised by the Club.

A Self Defence Workshop for girls in collaboration with Special Police Unit for Women and Children (SPUWAC) was organised by Republic- The Political Science, Women's Development Cell and Foreign Students Society jointly.

Library Development

The College library recently installed Radio Frequency based Library Management System (RFID) system to improve the facilities and resources of the library and reduce the theft or misplacement of books and other important documents of the library. It has also increased the speed and accuracy of all the transactions in the library and makes library more user friendly.

Faculty Strength: 76

Financial Allocation and Utilization

Budget allocated for infrastructure augmentation: Rs. 3,00,00000

Budget utilized for infrastructure development: Rs. 3,44,13,999

SRI GURU TEGH BAHADUR KHALSA COLLEGE

Major Activities and Achievements

Guru Angad Dev- Teaching Learning Centre (GAD-TLC) at the college organized “National Seminar cum Workshop on e-Content, MOOCs (SWAYAM) and ARPIT” in collaboration with AICTE under the ATAL scheme on 31 August 2019. More than 300 teachers participated in the event from the country. The inaugural event witnessed Shri R. Subrahmanyam, Secretary, Higher Education, MHRD, GOI as Chief Guest along with Prof. VedPrakash, Former Chairman, UGC, Prof. M.P. Poonia, Vice Chairman, AICTE and Prof. J P Singh Joorel, Director, Infilbnet as Guest of Honours and Resource Persons. Annual Refresher Program in Teaching (ARPIT) by MHRD, Govt. of India in Chemistry two years in a row (2018-19 and 2019-20) has been awarded to National Resource Centre (NRC) of Chemistry at GAD -TLC. of the total 76 NRCs for different subjects in 2018-19, only 20 have been continued for the year 2019-20 and our college is one of them. Centre for e-Learning" (CfeL) at the college has several ongoing projects in collaboration with various institutions and video modules for MOOCs have been developed.

Honours/Distinctions

Dr. P.S. Jassal was honoured with “CERTIFICATE OF BEST PRESENTATION AWARD” for his outstanding work on Nano chitosans for Toxic Metals Adsorption from Wastewater at XIII in an International Conference on water Pollution, Recycle and Wastewater on Oct 24, 2019 in London (United Kingdom).

Dr. Venugopalan T. won the Best Research Paper Award 2020 for Agency Problems, Board Characteristics and Corporate Governance in Post-Indian Companies Act 2013, (2020 January), International Conference on Industry 4.0 DIAS, New Delhi.

Dr. Vimal Rarh was awarded with "Edupreneur Innovator Award" in Golden Globe Health and Education Awards -2019 at India Islamic Cultural Centre, Delhi on 7 September 2019. She was also felicitated by “Indian Cancer Society” in their Annual Event “ARTISTES AGAINST CANCER” held on 28 February 2020, for contribution towards development of e-learning course on “Cancer Fundamentals” for the SWAYAM portal of MHRD, GOI. Further she was invited as Guest of Honour to give awards in Fox Asia Health, Education & IPR conference organised by Social Talks on 1 Feb 2020 at India Islamic Culture Center, Delhi.

Students with Distinctions

Ms. Divyangi Singh, B.A. (H) Mathematics III year qualified for Shri Suresh Bhatia Memorial Gold Medal

Ms. Harmeet Kaur Nagi, M.A. Punjabi was selected for BhaiVir Singh Gold Medal and Panjab Government Prize for Panjabi for her academic performance

Ms Jaspreet Kaur, B. A. (H) Punjabi III Year secured first rank in University examination and was selected for Sardar Mohan Singh Memorial Gold Medal

Mr. Raghav Gupta, B.A. (H) Business Economics III year stood first in University of Delhi examination, 2019.

Ms. Shreya Shakya, B.Sc. Life Sciences III year secured highest percentage in University of Delhi examination, 2019.

Mr. Vikrant Panchal (400m) & Mr. Ansh (400m) represented All India University in Athletics

Mr. Sanandan Tyagi, Mr. Ashraf and Mr. Ashish Ravi got selected for north zone Inter University in volleyball

Mr. Paras Mathur, Mr. Dhruv Rawat, Mr. Nikhil Mehla, got selected for Delhi University team and Delhi university won Bronze medal in All India Inter varsity Competition in badminton.

Post Graduate student Mr. Mohan Chaudhary Secured 3rd Place in inter college Taekwondo championship

Publications

Joseph, A. J., Sinha, N., Goel, S., Hussain, A., & Kumar, B. (2020). True-remanent, resistive-leakage and mechanical studies of flux grown 0.64PMN-0.36PT single crystals. *Arabian Journal of Chemistry*, 13(1), 2596–2610. <https://doi.org/10.1016/j.arabjc.2018.06.012>

Kaur, S., Baluja, K. L., Singh, J., & Bharadvaja, A. (2019). Vibrationally-resolved excitation and dissociation collision strengths of AIO⁺ by electron-impact using the R-matrix method. *The European Physical Journal D*, 73(7), 142. <https://doi.org/10.1140/epjd/e2019-90581-6>

Kumar Singh, S., Ashish, Talan, J., & Kaur, S. (2019). Simulation of confined pocket of a city by leapfrogging method. *The European Physical Journal Plus*, 134(11), 550. <https://doi.org/10.1140/epjp/i2019-12993-2>

Lamba, P.K., & Goel, M. (2019) *Advertising*, Delhi, JSR Publishing House

Mittal, A., Arora, R., & Kakkar, R. (2019). Pharmacophore modeling, 3D-QSAR and molecular docking studies of quinazolines and aminopyridines as selective inhibitors of inducible nitric oxide synthase. *Journal of Theoretical and Computational Chemistry*, 18(01), 1950002. <https://doi.org/10.1142/S0219633619500020>

Shrotryia, V. K., & Dhanda, U. (2019). Content Validity of Assessment Instrument for Employee Engagement. *SAGE Open*, 9(1), 2158244018821751. <https://doi.org/10.1177/2158244018821751>

Sodhi, G.S. (2019). Vapor phase methods for detection of latent fingerprints: A review, *International Journal of Forensic Science*, 2, 84-91.

Venugopalan, T. (2019) Debt Maturity Structure in Indian Companies: A Panel Data Analysis. *International Journal of Advance & Innovative Research*. 6.2 (34), 62-71

Research Projects

Dr. Manoj Kumar Nimesh. Department of Biotechnology (DBT), Ministry of Science & Technology, Govt. of India entitled “Designing and evaluation of point of care diagnostic assay for detection of MDR Tuberculosis using Loop mediated isothermal amplification combined with lateral flow dipstick”. Rs.7483280. Grant Number No. BT/PR207 46/MED/29/1194/2016 (2019-2021)

Seminars/Workshops Organised

Dance Workshop by Mayank Singh was organized by western dance society of the college- ETRAM on 19 August 2019

Seminar on "Political Economy of Federalism" was organized by Polis, Department of Political Science on 6 September, 2019

Lecture on "India's nuclear policy: Continuity and Change was organized by Junto, The civil services society on 9 September 2019

Department of Botany organized an interactive Seminar on "Dragonflies" by Mr. Ishtiyak Ahmed on 18 September, 2019

Department of Economics invited Prof. Shagata Mukherjee, to deliver a talk on "Behavioural Economics" on 19 September 2019

Enactus Seminar series by Prof. Sanjeev on "Discovery of Gravitational Waves and Beyond"- Department of Physics 25-26 September 2019

SahajYog- Talk and Practical Session to promote yoga was organized by Department of Botany on 3 October 2019

Department of Mathematics organized Lecture on "Mathematics behind data Science, AI and ML" on 7 November 2019

Conferences/Symposia Organised

Guru Angad Dev- Teaching Learning Centre (GAD-TLC) at the college organized "National Seminar cum Workshop on e-Content, MOOCs (SWAYAM) and ARPIT" organized in collaboration with AICTE on 31 August 2019.

National Symposium on "Digital Krantiaur Hindi" was organised jointly by SGTB Khalsa College and Uttar Pradesh Bhasha Sansthan on 24 October 2019.

Seminar/Conference Presentations

Dr. Ashween Kaur Anand presented a paper titled "An Empirical Investigation of Listing Day Abnormal Returns of SME Initial Public Offerings (IPOs) and its Determinants: Evidence from Bombay Stock Exchange" at the 9th India Finance Conference (IFC) 2019 held at IIM Ahmedabad from 18 to 21 December 2019.

Dr. Charanpreet Kaur presented a paper "The analysis of Copenhagen problem with a repulsive quasi-homogeneous Manev-type potential within the frame of variable mass" at National conference on "Emerging Trends in Mathematical Sciences for industry and Environment" organized by Shaheed Bhagat Singh college, University of Delhi, from 27-29 January 2020.

Dr. G. S. Sodhi delivered a plenary lecture entitled, A novel small particle reagent for detection of latent fingerprints at Fourth National Conference on Forensic Science and Cyber Threats: Countermeasures, held on 30 November -1 December 2019 at Galgotias University, Greater Noida.

Dr. P.S. Jassal presented paper on "A Study of Anthraquinone Dye Removal by Using Chitosan Nanoparticles" at XIII. International Conference on water Pollution, Recycle and Wastewater during 23-24 October 2019 in London (United Kingdom)

Dr. Sumita Lohi delivered presentation on “Hindi sahitya aur manviyamulya” in two-day International Seminar 'Nai Dunia, Naya Bharat, Nai Hindi' on 10-11 January 2020 at Hansraj College, University of Delhi, Delhi.

Dr. Tarun Kumar presented a paper titled “Archaeological Organizations in East Asia with Special Reference to Japan and Korea” in an international seminar organized by the Researchers’ Association for the Study of Korea (RASK) in collaboration with the Centre for East Asian Studies, School of International Studies, Jawaharlal Nehru University (JNU) at the Convention Centre, JNU on 8-9 November, 2019.

Ms. Upasana Dhand presented a paper titled “Corporate Sustainability: The new organizational reality” at 7th Annual International Commerce Conference organized by Department of Commerce, Delhi School of Economics, Delhi University on 18th January 2020.

Dr. Venugopalan T. presented paper on “Analysis of Board Characteristics Agency Problems and Corporate Governance in Post-Indian Companies Act 2013” (2020) at Globalizing Indian Thoughts, IIM Kozhikode, Kerala.

Dr. Vimal Rarh delivered invited Talk on “MOOCs and ARPIT in Chemistry: Government of India initiatives” at 107th Indian Science Congress, Bangalore on 6 January 2020.

Dr. Vimal Rarh delivered invited lecture on “MOOCs and Changing Roles of Teachers in Technology driven Higher Education” at Orientation Course, HRDC, BPS Mahila University, Sonipat on 30 May 2019.

Placement details

Number of students placed: 150

Number of companies visited for campus recruitment: 39 companies including LIC, TresVista, Bajaj Capital, Chegg, Redbus, Wipro, Bisleri, Apollo, Teach For India, OYO, BYJU’s, Bain Capability Centre, McKinsey & Company, Willis Tower Watson, Grant Thornton, Deloitte USI and Price waterhouse Coopers.

Extension and Outreach Activities

The NSS Unit became a part of the Mega Tree Plantation Drive organized by the Botany Department on 20 September, 2019. NSS unit organized Nukkad Natak on Women Plight, an advertisement competition, poster making competition, slogan writing competition and road safety awareness webinar in collaboration with Honda Safety Training on 24 September 2019 to mark the NSS day. Further, it also organized a Health Camp on 3 February 2020 in collaboration with Max Hospital, Shalimar Bagh. NSS organized its Annual Fest Sarahana under College Festival Lashkara in which various events for visually handicapped students were organized. An Online Poster Making Competition was organized on May 8, 2020. The topic for the competition was Global Effects due to Corona Virus. On August 12, 2020 a Crossword Competition was organized on the occasion of International Youth Day (Theme: Youth Engagement For Global Action).

Library Development

The college has a well-stocked library having nearly 1,38,000 books on record and regular subscription of Indian journals; magazines and daily newspapers. The Annual General Budget of the Library is to the sum of Rs. 12,60,000 and 4,00,000 is sanctioned for Library infrastructure. Around 2000 books of various subjects were added in the academic year. The library is connected with Delhi University wide area campus networking system and provides access to electronic resources to its users from **Delhi University Library System (DULS)** and **UGC-INFONET Consortium**. The college library also subscribed **NLIST (National Library and Information Services Infrastructure for Scholarly Content)** which provide access to e-

resources to its members. Library is subscribing 12 journals, 46 Magazines and 27 Newspaper. College library has recently started subscribing few braille magazines for Visually Impaired Students. The library is computerized and books are bar-coded and made easily accessible through **OPAC (Online Public Access Catalogue)**. The library has gate security check system with 32 CCTV cameras installed to monitor. College provides access to Internet in the Library Reading Room for the students and the staff during college hours. N-LIST Demo Classes were conducted twice in a week to train the students with e-resources and also collect the feedback. Library Science students were recruited as Interns for One month in the College Library under Library Internship Programme. They have been trained to work in all sections of the Library.

Faculty Strength

Permanent: 86

Ad hoc: 69

Financial Allocation and Utilisation

Grant Sanctioned: Rs. 55.20 Crore

Utilized: Rs. 62.84 Crore

Other significant information

Keeping pace with the changing times, and the growing needs of our students, the management has expanded the infrastructure of the college, and the construction of a **boys' hostel** in the college is going on at a fast pace.

Felicitation of S Gurinder Singh Khalsa at the "Rosa Parks Triblazer Awards" 26 December 2019

ARPIT Chemistry 2019-20: Online Refresher Course (01 September 2019 onwards) has **5661** enrolments till date. Online Examination was conducted on 16 February 2020.

The college has a continuing collaboration with University of Carleton for joint research projects including an exchange program for teachers and students and organizing joint Teachers Training Program for new age teachers.

Centre for e-Learning" (CfeL)

Following projects have been executed/ongoing for technical work of video development:

Self -Paced MOOC on "Cancer Fundamentals" for Indian Cancer Society, to be available at www.swayam.gov.in

Video Modules "Introduction to Forensic Science" and "Investigation of Crime Against Women", for Delhi Police Training School.

One ARPIT Course for National Resource Centre at Guru Nanak Dev University, Amritsar – 40 Modules for a MOOC as Online Refresher course for Teachers on SWAYAM portal of MHRD

One ARPIT Course for National Resource Centre at Mizoram University– 40 Modules for a MOOC as Online Refresher course for Teachers on SWAYAM portal of MHRD

One ARPIT Course for National Resource Centre at Jammu University– 40 Modules for a MOOC as Online Refresher course for Teachers on SWAYAM portal of MHRD

Biotech Consortium India Limited: Video Modules for Two MOOCs (In English and Hindi Medium) for Genetically Modified Plants under the capacity building Project on Biosafety as technical partner in project.

Four ARPIT Courses for National Resource Centres at Jawaharlal Nehru University - 140 modules being developed for SWAYAM portal of MHRD.

ST. STEPHEN'S COLLEGE

Major Activities and Achievements:

St. Stephen's College was placed at All-India fourth position in the NIRF rankings. The college was placed at All-India second position in the Arts and third position in the Sciences in India Today ranking. The St. Stephen's Centre for Advanced Learning was launched and has to date successfully conducted five Certificate level Programmes. The College has collaborations with Soka University, Japan; University of Notre Dame, USA; Dallas Baptist University, USA; Keio University, Japan; and Foundation for Community Consensus, Delhi.

Honours/Distinctions

Prof. John Varghese was nominated by the Governor of Rajasthan to the Governing Boards of the University of Rajasthan and the University of Kota.

Dr. Rakhi Thareja received several OTA/NCC awards: Director General's Plaque of Honour; Best ANO award; Excellence in Social Service and Community Development Programmes First Rank Merit Gold Medal for PRCN course; Excellence in Yoga Institutional Practices and Lecture Institutional Practices; Medal for being best in Institutional Planning; and Excellence in National Integration Awareness Programme.

Dr. Rohit Wanchoo was awarded a fellowship by ICCR.

Students with Distinctions

Neelakantha Bhanu Prakash - Fastest Human Computer in the world

Srinidhi Narasimhan - Rhodes Scholar

Mr. Srijit Seal - Avery Dennison Scholar at Cambridge University

Publications

Ahmed, Shamim (2019). Mahatma Gandhi aur samaji barabari ki jadd o jehed. *Urdu Duniya*. 21(10), 35-36.

Ahmed, Shamim (2019). Kalaam e Iqbal me shamsher o Sinan ki eimai kafaiyaat. *Aiwan-e- urdu*.33 (7), 13-16.

Bisht, Yogita, Deepa Rajendran and Lekshmi M Thirumal. (2020). Microwave dielectric properties of (1-x) Ba (Mg^{1/3} Ta^{2/3}) O₃-(x)Ba(Mg^{1/8}Ta^{3/4})O₃ ceramics synthesized by one pot metathesis process. *Ferroelectrics*. 558, 92- 103.

Deo, Aditya Pratap ed. (2020). *Summerhill*, IAS Review.

Deo, Aditya Pratap (2020). The Chinese Puzzle, Review of Pallavi Aiyar, Smoke and Mirrors: An experience of China. *Summerhill*, IAS Review, XI (2).

Gabriel, Karen. (2020). The Algorithms of desire: The field of the pornographic. *SAGE Handbook of Global Sexualities*.

Gabriel, Karen. (2019). From 'Me Too' to #Me Too. *The Equator Line*, 7(1).

Maity, Jyotirmoy, Smriti Srivastava et al. (2020). Biochemical synthesis of coumarin glycosides; A review. *Journal of the Indian Chemical Society*.

Maity, Jyotirmoy, Sandeep Kumar et al. (2020). Chemo- enzymatic route to bridged homolyxofuranosylpyrimidines. *Carbohydrate Research*.

Tittal, R. K.*; Ram, R. N.; Nirwan, A.; Ghule, V. D.; Kumar, Satish. CuCl/bpy-promoted unusual Z-stereoselective synthesis of trichloroacetic acid phenyl ester for Hirshfeld surface analysis and DFT study. *J. Mol. Struct.* 2019, 1185, 300-309.

Arora, H.; Sahoo, P. R.; Kumar, A.; Kumar, R.; Kumar, Satish*. The direct synthesis of a substituted naphthopentathiepin for selective Co²⁺ ion recognition in aqueous solution, *J. Incl. Phenom. Macrocy. Chem.* 2019, 95(1), 135-145. DOI: 10.1007/s10847-019-00932-8

Research Projects

Dr. Satish Kumar. Major Project from Defence Research and Development Organisation for 3 Years

Dr. Satish Kumar. Major Project from Science & Engineering Research Board for 3 Years

Dr. Raj Kumar Bhardwaj Major Project from Indian Council of Social Science Research for 2 Years

Dr. Walter Menezes, Minor Project from Indian Council of Philosophical Research for the period of 1 Year

Seminars Organized

National seminar on 'Insani Jazbat ka Izhar aur Urdu Ghazal', organized by St. Stephen's College in collaboration with National Council for Promotion of Urdu Language, February 6, 2020, St. Stephen's College.

Seminar/Conference Presentations:

Kashif Ahmed presented a paper titled 'Some New Semiring Structures', at an International Conference on 'Algebra and Related Topics with Applications', organized by Dept. of Mathematics, Aligarh Muslim University, December 17- 19, 2019.

Benston John presented a paper titled 'Covid 19: A Global Crisis or a Crisis of Globalization' at a webinar organized by Department of Economics and Post Graduate Department of Commerce, Al- Ameen College, Edathala, Aluva, on June 26, 2020.

Sujay k. John presented a paper titled 'Sports- Transcending Socio- economic Barriers', in an International Conference on 'Sports for Development and Peace', on April 6, 2020.

Dr. Shamim Ahmed presented a paper titled 'Mohsin Kakorvi Ki Qaseeda Nigari' at a National Seminar.

Jyotirmoy Maity presented a paper titled 'Peptidomimetics for Prevention of Neurotoxicity caused by Amyloid- beta Peptide' at a National Conference on 'Emerging Trends and Future Challenges in Chemical Sciences', organized by Kirori Mal College on June 10- 11, 2020.

Dias Mario Antony delivered a lecture titled 'An Introduction to the History of India' on February 29, 2020, as a part of Soka University- St. Stephen's College Academic Partnership Programme.

National/International MoUs Signed:

Soka University, Japan

Keio University, Japan

University of Notre Dame

Dallas Baptist University, USA

Foundation for Community Consensus

Students under Exchange Programme:

Ms Kirti Arora outbound - to Soka University.

Placement Details

Number of Students Placed Approx. 290

Number of Companies visited for campus recruitment: 246

Extension and Outreach Activities

NCC Projects:

Anti-pollution drive Awareness Created throughout in North Campus, Delhi University

Swachta Campaigns to keep the surroundings and city clean

Visits to an orphanage to sensitize the students for special needs in the society

NCC Ek Yogdan (Phase I) with exclusive media coverage to help the needy during the pandemic times and also to make the society aware of the necessary steps to follow

Social Service League programmes:

Food Distribution: On the 1st Sunday of every month, food is collected from the College residence and is distributed among needy.

Blood Donation: 301 blood units were collected from donors.

Evening Classes: College students teach the children of the non-teaching staff of College.

Library Development

IFLA-India Workshop hosted by the College in December 2019

Faculty Strength

Permanent: 58

Adhoc: 33

Financial Allocation and Utilization

Hostel Mess Grant: Rs. 320,359,000

Maintenance Grant: Rs. 14,946,000

Amount Utilized

General Fund: Rs. 322,673,351

Hostel Mess: Rs. 15,471,772

SRI VENKATESWARA COLLEGE

Major Activities and Achievements

Highly motivated faculty members have brought glory to the college and have contributed significantly to academic and co-curricular environment by bagging research projects, publishing research papers, books, book chapters, e-learning modules and virtual lesson plans. They are constantly upgrading their knowledge by participating in Refresher courses, Faculty Development and orientation programs. To promote skill development & curriculum enrichment for students various certificate programs were introduced including Add on certificate courses in IPR, Ayur Biology, Entrepreneurship and Climate Change and foreign languages like German, French and Spanish. A dedicated new academic block, testimony to the constant efforts of the administration and relentless support by the TTD is to be inaugurated in the coming semester. The college is extremely sensitive towards social and environmental issues and very well understands its role in nation building, which is reflected in our outreach and sensitization programs conducted under Women development cell, Equal Opportunity Cell, Eco Club and NSS.

Honours/Distinctions

Sri Venkateswara College has ranked 14th in the National NIRF Rankings of MHRD and has been ranked 6th in the Educational World Rankings under the non-autonomous college category for the year 2020.

Dr. N. Latha, Associate Professor, Department of Biochemistry has been conferred upon the coveted "Excellence Award for in-service teachers" in college category by University of Delhi on the occasion of 97th foundation day.

Students with Distinctions

Naintara Jain, B.Sc. (H) Biochemistry III year secured 1st rank in University of Delhi

Rashween Singh, B.Sc. (H) Biological Sciences III year secured 1st rank in University of Delhi

Publications

Chitra, Laishram, R., Rajput, S., & Singh, K. C. (2020). Particle-size-induced high piezoelectricity in (Ba_{0.88}Ca_{0.12})(Ti_{0.94}Sn_{0.06})O₃ piezoceramics prepared from nanopowders. *Journal of Alloys and Compounds*, 812, 152128. <https://doi.org/10.1016/j.jallcom.2019.152128>

FNU, P., Sinha, N., Kumar, S., FNU, A., Kumar, S., Kumar, P., Pandey, A., Sharma, P., Aggarwal, V., FNU, P., Mothsra, P., Singh, B., Singh, R., & Kumar, Y. (2019). Synthesis of coumarin based triazolylthiazolidinones and their apoptotic inducer activity against caspase-3. *Chemical Biology Letters*, 6(2), 30-38

Gaur, M., Singh, A., Sharma, V., Tandon, G., Bothra, A., Vasudeva, A., Kedia, S., Khanna, A., Khanna, V., Lohiya, S., Varma-Basil, M., Chaudhry, A., Misra, R., & Singh, Y. (2020). Diagnostic performance of non-invasive, stool-based molecular assays in patients with paucibacillary tuberculosis. *Scientific reports*, 10(1), 7102. <https://doi.org/10.1038/s41598-020-63901-z>

Gupta, M. K., Polisetty, R. V., Sharma, R., Ganesh, R. A., Gowda, H., Purohit, A. K., Ankathi, P., Prasad, K., Mariswamappa, K., Lakshmikantha, A., Uppin, M. S., Sundaram, C., Gautam, P., & Sirdeshmukh, R. (2019). Altered transcriptional regulatory proteins in glioblastoma and YBX1 as a potential regulator of tumor invasion. *Scientific reports*, 9(1), 10986. <https://doi.org/10.1038/s41598-019-47360-9>

Jayaraj, P., & Sen, S. (2019). Evaluation of PD-L1 and PD-1 expression in aggressive eyelid sebaceous gland carcinoma and its clinical significance. *Indian journal of ophthalmology*, 67(12), 1983–1987. https://doi.org/10.4103/ijo.IJO_2056_18

Kaushal, N., Kumari, S., Jhelum, H., & Sehgal, D. (2020). In vitro and in vivo characterization of the interaction, proinflammatory, immunomodulatory and antigenic properties of capsular polysaccharide from *Streptococcus pneumoniae* serotype 1. *International journal of biological macromolecules*, 143, 521–532. <https://doi.org/10.1016/j.ijbiomac.2019.12.022>

Pasricha, S., & Gahlot, P. (2020). Synthetic strategies and biological potential of coumarin-chalcone hybrids: A new dimension to drug design. *Current Organic Chemistry*, 24(4), 402-438. <https://doi.org/10.2174/1385272824666200219091830>

Sharma, G., Rahul, Guleria, R., & Mathur, V. (2020). Differences in plant metabolites and microbes associated with *Azadirachta indica* with variation in air pollution. *Environmental pollution (Barking, Essex: 1987)*, 257, 113595. <https://doi.org/10.1016/j.envpol.2019.113595>

Singh, K. K., Bhardwaj, N., Sankhe, G. D., Udaykumar, N., Singh, R., Malhotra, V., & Saini, D. K. (2019). Acetylation of Response Regulator Proteins, TcrX and MtrA in *M. tuberculosis* Tunes their Phosphotransfer Ability and Modulates Two-Component Signaling Crosstalk. *Journal of molecular biology*, 431(4), 777–793. <https://doi.org/10.1016/j.jmb.2019.01.004>

Singh, S., & Singh, S. (2020). High order convergent modified nodal Bi-cubic spline collocation method for elliptic partial differential equation. *Numerical Methods for Partial Differential Equations*, 36(5), 1028-1043. <https://doi.org/10.1002/num.22463>

Research Projects

MoEFCC, entitled “Sustainable Tourism of hill Cultures and Ecology in abandoned villages of Uttarkhand - A pilot project” Amount: Rs. 50,00,000/-

Department of Science and Technology DST entitled “Contribution to cost efficient trend free factorial designs” Amount: Rs. 17,90,000/-)

DST India-Austria Cooperation Fund: Combined computational and experimental approaches for recombinant production of pectate lyase major allergens (2018), Dr. N. Latha, Department of Biochemistry,; Amount: Rs. 8.6 lakh

DBT sponsored “ Development of Thiourea derivatives as antiral agent for Hepatitis B Virus infection for a period of three years. Dr. Deepti Sharma, Department of Chemistry. Amount: Rs. .26,73,586/- has been released during 2019-20 out of the total grant of Rs. .41,28,786.00.

DST-SERB sponsored “Temporal synchrony of plant and its endophytes in insect stress responses” Dr. Vartika Mathur, Department of Zoology. Amount: Rs. 35,18,521/- sponsored by SERB, DST.

Patents Filed/Granted

A methodology of extraction, isolation and biochemical characterization of plant-associated microorganisms. Indian Patent 201911034376 filed August 26, 2019. (Applied)

Seminars Organized

National Seminar entitled “Quality in Higher Education: Current Priorities and Future Challenges during 18 to 19 October 2020 seminar.

Webinar entitled “COVID-19 breaking myths and moving forward” in association with the All India Institute of Medical Science, New Delhi, India, 27-29 April 2020.

National Seminar entitled “Climate Change and Sustainable Development, funded by SED India organized at Sri Venkateswara College from 6-7th April, 2019

One week faculty development programme entitled “Business Research Methods”. November 19 to 25 November 2019.

Conferences Organized

International Workshop entitled “Air Pollution and Public Health: Challenges and Interventions” in association with Centre for Science & Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre), New Delhi, India. February 5 to 7 2020.

VISTAAR- One day Science Popularization event held for school students sponsored by the Department of Biotechnology, Government of India on 1 November 2019.

Two-day workshop on Artificial Intelligence, by Innovians Technologies in association with TECHNEX'20, Indian Institute of Technology (BHU), Varanasi, 17to 18 February, 2020

National workshop on “Techniques in Plant Sciences”. December 4 to 5 2019.

Add-on Certificate course on Intellectual Property Rights (IPR), Jan - May 2020

Seminar/Conference Presentations

Dr. Vartika Mathur, Oral presentation on “Variation in the plant-microbe association and plant metabolites in an urban ecosystem” at the International Society of Chemical Ecology (ISCE) 2019 Annual Meeting Atlanta, GA, USA, June 2- 6 2019.

Dr. Anant Pandey, presented paper on “CaF₂: Tm nanophosphor as gamma radiation and carbon beam dosimeter for radiotherapy” in 22nd Asia-Australasia Conference of Radiological Technologists (AACRT 2019) in conjunction with the Australian Society of Medical Imaging and Radiation Therapy’s 14th National Conference (ASMIRT 2019), March 28 to 31 2019, organized by the Australian Society of Medical Imaging and Radiation Therapy, held at Adelaide Convention Centre, Adelaide, Australia

Dr. Ratna Raman delivered talk on "Mythical daughters: Electra, Draupadi and Sita and their absent mothers Conversation November 1 2019 at L-332: Harvard Kennedy School, Harvard University, Cambridge Massachusetts.

Dr. Perumal Jayaraj, Oral presentation “PD-1 and PD-L1 pathway in sebaceous gland carcinoma of the eyelid: a possible target for curcumin and aeginin?” at the International Conference on Natural Products and Human Health-2020(ICNPHH-2020) Deshbandhu College, University of Delhi on February 26-29 2020

Dr. Mansi Verma, Oral presentation on “Flaviviruses: one vaccine several solutions” in Young Scientist Forum at International conference on the Theme: Current Trends In Microbiology And Microbiome Research: A Global Perspective (Ctm 2019) organized by INSCR and Department of Microbiology, MDU during October 11-12 2019 at Maharshi Dyanand University, Rohtak, India.

Dr. Richa Misra, on “Tuberculosis” at International Conference on Natural products & Human Health organized by Deshbandhu College, 29th February, 2020.

Dr. Vagisha Rawal, Oral presentation on Growth Inhibiting Activity of *Datura innoxia* Mill. (Solanaceae) on tobacco caterpillar, *Spodoptera litura* (Fab.)(Lepidoptera : Noctuidae) in the ‘National Conference on Insect plant Biology in 21st century’ organised by Zoology Department of Deshbandhu College on November 4 to 5 2019.

Dr. Rekha Yadav (Chemistry) Oral Presentation on “Synthesis and catalytic application of Titanium Silicoaluminophosphate Molecular Sieves” Rekha Yadav, Shashank Bahri, Kanthi Pusapati, Sreedevi Upadhyayula at UK Catalysis Conference 2020 at Holywell Park, Loughborough held between 7 to 9 January 2020.

Ms. Simranjeet Kaur presented paper on “Relationship between Spot and Future Prices of Gold: Empirical evidence from India” at National Conference on Current Trends in Business & Economics organized by S.D.(PG) College, Panipat held from February 15-16 2020.

Dr. Arpita Kaul presented paper titled “Attracting, retaining and motivating the Indian millennials: A Human Resource Perspective” in the 7th Annual International Commerce Conference on Organizational Realities: Changing Paradigm of HR, 17- 18 January 2020 at Department of Commerce, Faculty of Commerce & Business, Delhi School of Economics, University of Delhi

National/International MoUs Signed

The College signed a joint agreement for cooperation in Bioinformatics with Martin Luther University, Halle-Wittenberg, Germany in February 2019.

The college also entered into MOU for academic & cultural exchange with Nordic Centre, a consortium of 19 universities in Sweden, Norway, Iceland, Denmark and Finland.

The faculty had international collaborations with Austria and Thailand. Dr. N. Latha has collaborated under the DST-Austria cooperation fund in computational biology.

Dr. N. Latha and Dr. Nimisha Sinha are a part of the DST India-Thailand faculty exchange programme.

With Indian/Foreign Companies/Industry

Other Inter-Institutional Collaboration:

Collaboration with IISER, Pune, on Trans Disciplinary Research Oriented Pedagogy-International Council for Science (TROPICUSU) for developing e-lesson plans to integrate climate education with core curriculum.

Placement Details

Number of Placement Offers:	141
Number of Internship Officers:	361
Highest Package :	INR 11,50,000/-
Average Package :	INR 4,60,000/-
Median Package :	INR 4,40,000/-

Extension and Outreach Activities

The NSS volunteers initiated some projects – Viz. Project Poshan, Each one Teach One, Pustak Book Bank, Project Astitva, Project Pahal

Considering the ongoing pandemic situation in the country, the NSS has stepped up and contributed towards the awareness to combat this situation. All the volunteers of NSS SVC have been working towards this by preparing guidelines in accordance with the instructions given by the concerned ministries.

The students are also engaging in a telephonic conversation with the people of Sanjay Camp (adopted community) in order to make them aware about the current situation in order to prevent the spread of misinformation amongst the people. Total number of NSS Volunteers launched awareness campaign - 111 volunteers. Total number of people made aware by NSS Volunteers- 650-700 people.

Since, NSS SVC couldn't reach out to vulnerable people physically, it is changed its way of approaching and sensitising - major way to do so was through social media platforms, NSS SVC started multiple campaigns to educate, normalise and help different audience on social media platforms. The NSS (i) promoted JANTA CURFEW through a VIRTUAL PLEDGE where nearly 50 volunteers turned up along with few students; (ii) campaigned to promote health and safety included multiple posts to keep audience upto date with all required information on COVID-19; (iii) promoted PM CARES relief fund and asked people to DONATE, (4) activities like Yoga, painting, drawing etc. conducted; (5) clarified all myths around Covid-19 through this campaign; (6) started a campaign #StopViolenceAgainstCoronaWarriors and it was a great success, The NSS also shared the actions that can be taken against who harm (physically or verbally) to any health care worker (7) made a special task force which is calling most of the households in Sanjay camp (the adopted slum) and has been surveying people and what resources they are getting from govt. (8) helped outstation students stuck in Delhi, by providing them all important information and notices.

Library Development:

Air-conditioned reading room, Wi-fi enabled library

Separate reading room for students and faculty

Number of books/accessions: 1,45,891

Number of electronic databases in library: 14386

Number of subscriptions to international journals (electronic): 7832 (DULS) +6327 (through N-list)

Number of national journals: 24

Number of international journals: 3

OPAC

NLIST

DULS subscribed e-resources

15 Newspapers in 4 languages, in which 8 Newspapers are in English language, 4 in Hindi, 2 in Telugu and 1 in Tamil.

Faculty Strength: 211

Financial Allocation and Utilization

Grant sanctioned: Rs. 86,93,94,233.00

Utilized: Rs. 66,67,16,967.00

Other Significant Information:

The College offered Add-on courses for students on contemporary topics. These courses were open to students of other universities and colleges, and were in addition to the routine undergraduate courses. A total of four add-on courses were conducted in this academic year in addition to the ongoing certificate courses in foreign languages like Spanish, German.

Ayurbiology: This course was conducted in odd semester and had 35 participants. Experts came from AIIMS, IGIB, Chaudhary Bramhaprakash Institute of Ayurveda. Participants also went on a field visit to All India Institute of Ayurveda.

Intellectual property rights: The course has been successfully running for a couple of years and was conducted in the even semester. It had 55 participants and Attornies-at-law Mr. Hari Subramanium and Dahlia Sen Oberoi from Sen Oberoi law firm were the resource persons

Entrepreneurship: The course was conducted in even semester and had 36 participants. Experts were invited from DSE, Dept of Commerce, DU, ANDC college, DU. The course also incorporated for the first time online evaluation mode using MOOCs platform

Climate change: issues, concerns and strategies (Department of Botany and Environmental science): the course was conducted in even semester and had 46 undergraduate as well as post graduate students as participants from different colleges. Experts were invited from JNU, IARI, IP University, DU, Kurukshetra University, DST.

SWAMI SHRADDHANAND COLLEGE

Major activities and achievements

A separate air-conditioned reading room has been created to provide the much-needed space for teachers to work. A separate well-maintained cabin has been provided for visually handicapped students of the college. To search different type of E-mails, Internet browsing facility is available in the library.

Publications

Dr. Jagbir, (2019) book on “Disaster Management: a data analysis approach”, at United Nation in May 2019 In Switzerland.

Dr. Kiran Bala, (2019) chapter in Ethnobotany –II, Chapter 5, 85-99 on “Ethnobotany as a tool to protect the interests of ethnic group”, ISBN- 978-81933805. Kojo press.

Dr. Kiran Bala, (2019) ‘Smart Energy resources and sustainable Engineering’ entitled ‘Importance of algal oil as a source of biodiesel; A short review’ Publisher- Energy@SSNC, ISBN-978-93-5391-131-7, 30-36.

Dr. Vinod Parsad, (2019)“Confinement effects on persistent currents in hydrogenic atoms” Vinod Prasad, Sonia Lumb, Shalini Lumb Talwar, G. Lefkidis and W. Hübner, Physics Scripta : 94;12505.

Dr. Vinod Parsad,(2019) “Exploring response of Li molecule to external electric field: A DFT and SAC-CI study”, G.Chanana, K.Batra and V.Prasad: Computational and Theoretical Physics 1169, 112620.

Priyanka Srivastava, Qiang-Sheng Wu and Bhoopander Giri (2019) Salinity: An Overview. In Giri and Varma (eds), Microorganisms in Saline Environments: Strategies and Functions, Springer Nature, Switzerland AG, pp 3-18 ISBN 978-3- 030-18974-7 h

Meera Sharma, Madhu Kumari and V.B. Singh. (2019) “Multi-Attribute Dependent Bug Severity and Fix Time Prediction Modeling” *International Journal of System Assurance Engineering and Management* ISSN 0975-6809 Vol. 10(5).

Dr. Vibha Manoj Sharma, presented and published a research paper titled “Dynamics of the Study of Dandanata: A Folk Performing Art in Odisha” in the First International Conference on Humanities, Arts and Sciences (BICOHAS-2018) held at Kualalampur, Malaysia from 24 to 27 August 2018 jointly organized by Universiti Putra Malayasia (UPM), Kualalampur, Malaysia; Bodhi International Journal of Research in Humanities, Arts and Sciences and Bishop Heber College (Autonomous), Tamil Nadu.

Dr. Vibha Manoj Sharma presented a paper on “Performance Leading to Communication: An Interdisciplinary Approach to the Study of Dandanata in Western Odisha” in the International Conference on Revisiting English Language and Literature Multicultural Milieu (RELLMM-2020) organized by Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women, Chennai in association with Bodhi International Journal of Research in Humanities, Arts and Sciences on 22nd January 2020.

Dr. Akanksha Gupta and Priyank Nahar. (2019) “An effective Smart Agriculture system using Internet of Things. *International journal of Engineering and Advanced Technology*, ISSN: 2249-8958, Vol 9(2). Indexed in SCOPUS and DBLP, UGCCARE List Group A.

Seminar Organized

Dr. Mukesh Kumar, Editor of Proceeding of National Conference on “Smart Energy Resources And Sustainable Engineering”, has also supervised dissertation work on “Smart technology of efficient use of household Solar Energy” by Ankit Pachar in Jan-June 2019, has also participated in a various event like International Debate on Disaster, has also organized NGPE 2020 (Indian Association of Physics Teachers).

Seminar/Conference Presentations

Meera Sharma, Madhu Kumari and V.B. Singh presented paper entitled “Bug Priority Assessment in Cross Project context using Entropy based Measure” *International Conference on Machine Learning and Computational Intelligence (ICMLCI)*, 14 to 15 December 2019, held at IIMT, Bhubaneswar, Odisha, Springer, Germany.

Dr. Bipin Aggrawal presented a paper entitled “A validated method for analysis of toxic heavy metal in food spices (Food & Agriculture Products) by ICP-MS” in International Conference on “Advances and Innovations in Agriculture & Allied Sciences (AIAAS-2020)” during 31 January to 31 February 1 2020 held at JNU, New Delhi, India.

Dr. S.K.Srivastava presented a Lead paper entitled Utilization of Viruses maintained in Plants for Vaccination, Cancer and Immunotherapy at the VIROCON, 2020, an International Conference on Evolution of Viruses and Viral Diseases held at Indian National Science Academy, New Delhi 18-20 Feb 2020.

Library Development

Library has a good collection in the areas of Humanities and Social Science(s). A separate library on Commerce and other interdisciplinary subjects is housed in the old campus of the college with the subjects including General Collection, Reference Books, Progress Reports (PR), Technical Reports (TR), Theses (TH) Text Books (TB), Book Bank (BB), S.A.F. Books, IT and Computer Section.

The Library subscribes more than 70 national and international journals and periodicals and 31 newspapers, which provide the latest information on current events and affairs. The library has spacious reading room, Online Public Access Catalogue (OPAC) (processing), E-Resources (in computer lab). Library also provides the special instruments and assistive tools for visually challenged students. In this session 4 such students are received these specific instruments. The library is connected to the N-LIST programme of the MHRD through which the faculty and students can access more than 500 E-journals and 1 lakh E-books. Library is focused to ensure the satisfaction of the users with its quality services provided by library Latest Activities such as A separate reading room with much needed space has been provided for teachers to work, a separate well maintained cabin for VH students and members of the college and internet browsing facility. The automation work in the library is under process and will be completed soon.

Faculty Strength: 173

VIVEKANANDA COLLEGE

Major Activities and Achievements

The Social Outreach Committee along with Delhi Legal State Authority and Slum Swaraj Foundation organised Health Camp-Cum-Legal Awareness Programme on 13 September 2020 Aadhar Card Installation (27.09.2019), Awareness on Coronavirus (06.02.2020), regular educational camps for the slum children in Jhilmil Colony. To celebrate the 150th birth anniversary of Mahatma Gandhi, a blood donation camp was organized by NSS in collaboration with Lions Blood Bank in the college premises. The hockey team of the college was placed 2nd in Janki Devi Cup Diamond Jubilee tournament. The Archery team was placed 2nd in the compound team event Inter-College tournament.

Students with Distinctions

Riya Dagar secured 1st position in Delhi Archery Competition in Team Event in Junior category and sub junior category, in Mix-Team Event in sub-junior category and in Olympic round in sub-junior category on 19 February to 23 2020. She also secured 2nd position in 50+50 Meters event in sub junior category.

Ishita secured 2nd position in Delhi Archery Competition in Mix Team Event and in Team Event on 19 to 23 February 2020.

Ms. Gurmeet Kaur won Earthspire Rolling Trophy (First prize in Recipe making competition) during Celebration of National Nutrition Week on the theme "Feeding Smart from the Start" held at Lady Irwin College on 6 September 2019.

Ms. Gurmeet Kaur and Ms. Nandini Tiwari won First prize in Recipe making competition during Nutrition Awareness Activity 2020 sponsored by PFNDAI, Mother Dairy, Marico, Hexagon Nutrition etc. held at Lady Irwin College on 28 February 2020.

Shefali Yadav won Gatsby Music Award of 2020 for her outstanding performance in music category.

Publications

Chauhan P and Suri S. (2020). Quality of Oils: Food Safety and Surveillance System. *Proceedings of the UGC sponsored two day National Conference "Food Safety, Nutritional Security and Sustainability"* Page 158-168.

Elhance, Jyotika. (2019) "Spring in JallianwalaBagh". Indian Literature: *Sahitya Akademi's*, Vol. LXIII, No.3, May/June

Mukherjee Chaandreyi.(2020) "The Harvest", *Muse India*, Issue 90.

Nandrajog, Hina 'Jallianwala Comes to Life,' Navtej Singh. (2019) (Co-translated with Poonam Singh and Dipika Kohli), Jallianwala Bagh: Literary Responses in Prose & Poetry, ed. Rakhshanda Jalil, New Delhi: Niyogi Books, 2019. p. 172-178. ISBN 978-93-86906-92-2. (Co-Translation of Punjabi story, 'Jallianwala Jaag Paya')

Nandrajog, Hina. (2019) (Translated some of the documents in The Bhagat Singh Reader, ed. Chaman Lal. New Delhi: HarperCollins. P-ISBN: 978-93- 5302-849-7, E-ISBN: 978-93-5302-850-3.)

Nandrajog, Hina. (2019) (Translated some of the documents in The Bhagat Singh Reader, ed. Chaman Lal. New Delhi: HarperCollins. P-ISBN: 978-93- 5302-849-7, E-ISBN: 978-93-5302-850-3.)

Sandhya Jain (2020). "LCT based integral Transforms And Hausdorff" Operators. *Eurasian Journal*, ISSN 2077-9879, Volume 11, Number-1, Pages.57-71

Sondhi, V. and Mishra, R. C. (2019). Applied Cognition. In G. Misra (Ed.) 6th ICSSR Survey 'Cognitive and Affective Processes' (111-203).

Suri, Sukhneet. Agriculture for achieving sustainable food and nutrition security. In: Socio-cultural study of agriculture. Eds: Kaur Harpreet, Gupta K Lokesh and Sethi Kamaljeet. *Kitab Mahal*, ISBN 978-93- 87253-62-9.

UGC sponsored two day National Conference "Food Safety, Nutritional Security and Sustainability" Page 1-15. SPM College, University of Delhi, Vidya Kutir Publications, UP, India. ISBN: 978-81-942875-0-6.

Number of college teachers serving as Editors/Members of Editorial Board: 01

Seminars Organised

The Department of English organised a two day National Student's Seminar "Heart of Queerness" on 4 to 5 November 2019 as part of the college's ongoing Golden Jubilee Celebration.

The Department of Food Technology organised a one-day National Seminar on "Food and Culture of North-East: Solutions to Sustainable Development" on 22 August 2019 at Vivekananda College in collaboration with Petronet India Pvt. Ltd.

The Department of Hindi organized a Two-day National Seminar on the topic "Kamkaji Mahila: Sahitya mein banta Itihaas" on 17 to 18 January 2020.

One Day National Seminar on "Gandhi And Ambedkar: Contemporary Perspective" was organized by Gandhi Study Circle Committee on 31st January 2020.

Conferences Organised:

A three days International Conference on 'Perspectives on Peace and Sustainable Development in a World of Conflict' was organised by the college from 13-15 February 2020. The event was sponsored by ICSSR and ONGC

Seminar/Conferences Presentations

Timsi Bhatia presented a paper entitled "Sustainable Employee Engagement: A Conceptual Analysis of Its Antecedents and Consequent" in 7th Annual International Commerce Conference 17 -18 January 2020:

Dr. Kamini Taneja presented paper entitled "AsamiyaSamazkiSanskritike rom rommeinjhalakati Sanskrit" at Vivekananda college(NAAC), University of Delhi on 22 August 2019.

Dr. Vedanidhi presented paper entitled "Shribhashya me pratipaditsankhyamat ka khandan" in two days national seminar at Hindu College.

Dr.Preeti presented paper entitled "Ramanujacarya ki-samajik- aur Darshanika Manyataey" at Hindu college, University of Delhi on 19- 20 September 2019

Suri, S. presented a paper entitled "Assessment of Body Composition for Nutrition Screening and Well Being : A Review" in two day National Conference "Food Safety, Nutritional Security and Sustainability". SPM College, University of Delhi.

Suri, S. presented a paper entitled "Quality of Oils: Food Safety and Surveillance System" in two day National Conference "Food Safety, Nutritional Security and Sustainability". SPM College, University of Delhi

Placement Details

Number and Percentage of students placed: 24

Number of Companies visited for campus recruitment: 01

Extension and Outreach Activities

Advancing Government of India's initiative of "Poshan Maha Abhiyan", Health & Wellness Committee of

Vivekananda College organized a 3-day Anemia Camp was organised for all batches of college students from 25 to 27 September 2019.

The Social Outreach Committee has two main Groups of students working in it. One is associated with Delhi Legal State Authority (DLSA) and the other with an NGO called Slum Swaraj Foundation (SSF).

Educational camp for more than 50 slum students was organized from 21 August 2019 to March 2020 under guidance of SSF (Slum Swaraj Foundation) and Social Outreach and Community Development Committee.

Cloth Donation drive for homeless kids on Children's Day 15 November, 2019 under guidance of SSF (Slum Swaraj Foundation) and Social Outreach and Community Development Committee

Under the Delhi State Legal Services, students work for weaker section of the society and also with a motive to create general awareness among the mass regarding environmental and social issues. Some of the important activities undertaken were: Health camp-cum-Legal Awareness Programme was organized on September 13 2019 Krishna Mohalla Park, Opp. Verma Jewellers, Shahdara, Delhi. A rally on "Beat the Plastic" was organized on September 20 2019 at the Jhilmil Colony Krishna Mohalla Park. On 27 September a program was organised in which installation of Adhar card was done on the basis of the data collected from the door-to-door campaign.

Library Development

Vivekananda college has fully automated library using web-centric LSEase (EJB) software and equipped with LCD Projector and completely wifi enabled. Library is in three floors having seating capacity of 180 users. Our Library has collection of approx. 65000 books along with 48 periodicals, audio-visual material, old question papers, Braille books and e-resources.

New Initiatives:

Six new computers purchased in the library

Advance server system purchased for smooth functioning of library software.

130 Faculty member and student were given User ID and Password to access resources through N-List program of INFLIBNET.

Faculty Strength

Permanent: 40

Ad-hoc: 57

Financial Allocation and Utilization

Grant Sanctioned in Rs.

UGC: Rs. 26,90,17,000.00

Delhi Govt.: Rs. 48,00,000.00

Utilized: Balance sheet is under process

ZAKIR HUSAIN POST GRADUATE EVENING COLLEGE

Major activities and achievements

Unlike previous years, this year the major academic and extra-curricular activities were held with limitations and restrictions due to a global pandemic "Covid 19". However, sincere efforts were made by the faculty and students to organise some events and programmes. Anjuman-e-Farsi in collaboration with department of Arabic organized a literary gathering on Wednesday 19th February 2020. The English Literary Society organised a series of literary events during the academic session 2019-20. The Society organised a talk on 'The Seeds of Discontent: Religion, Politics and Literature in the Seventeenth Century' by Dr. Nabanita Chakraborty. The Political Science Society (PRATIBIMB) organized various academic & cultural activities during academic year 2019-20. One of them is the *Siyasat'20* comprised of six events mainly Turncoat Debate (Inter-College), Quiz Competition on current Affairs. The Film and Photography Society screened 'Hidden Figures' on October 22, 2019. An exhibition of photographs followed by a competitive.

Honours/Distinctions

The Principal of the college and members of Gandhi Study Centre celebrated 150th Birth Anniversary of Mahatma Gandhi on 2 October 2019, Gandhi Bhawan, University of Delhi where Dr. Masroor Ahmad Beg, Principal and Dr. Sanjay Kumar were awarded for their contribution towards working on Gandhi.

Publications

Ahmad, Dr Khursheed (2020). "Nigahi be Sharah Shadmani (Qasaid-e-Khaqani)" "*Persian Research Journal*" Published by Department of Persian, University of Delhi, Delhi-110007, ISSN:2395-3667.

Baishya, Sanjib Kumar (2019) 'Fate', 'Pro Bono', 'The Henchman', 'Put on your Gown, Vakil Sahab' and 'The Feast' in 'Lapis Lazuli', an international literary journal, Vol. 9, No. 1, Spring.

Baishya, Sanjib Kumar (2020) 'The Clock' and 'Archeology of Silence' in 'The Blue Nib', an International online magazine. <https://thebluenib.com/2-poem-by-sanjib-kumar-baishya/> published on 24.06.2020

Kaur, Dr. Supreet (2019) Impact of Financial Inclusion on Industrial Workers, International Journal of Scientific & Technology Research, 2019, Vol. 8, ISSN: 2277-8616, Indexed in UGC Care List, Scopus

Prasher, Jai Kishan (2020) "How Education Migrated from Gurukul to Zoom", Education Times, TOI, Delhi

Prasher, Jai Kishan (2020) "Is Open Book Examination a viable option?" Education Times, TOI, Delhi.

Rahman, Dr Jamilur (2019) "Maldar Shershabadiya somajer chalchitra: Otit o bortoman" in the literary journal "Atibhuj" published by Hawakal publication, Kollkata.

Rout, Dr Subrat K. (2019) "Review Article : Making Sense of Tribal and Dalit Exclusion in Colonial Orissa" in the September- October 2019 issue of Social Scientist.

Journals

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 10

Seminars Organized

A National Student Seminar entitled 'Translation: Theory, Contexts and Praxes' on 3 March 2020, Department of English, Zakir Husain Delhi College Evening.

A Two-day National Gandhi Jayanti Seminar 2019 on 'Gandhi and the Contemporary Issues: Old Theory, New Perspectives' organised by Department of Philosophy, University of Delhi and Indialogue Foundation, Gandhi Bhawan and Gandhi Smriti and Darshan Samiti, Delhi on 22-23 October 2019 at Conference Centre, University of Delhi

The North east Cell also organised a student's Seminar entitled "Is Delhi different from 'Home': Understanding how students of North –East talk politics in India." on 5 March 2020

Conferences Organized

The Gandhi Study Centre of the college organized and participated in International Conference organized by Gandhi Bhawan and Gandhi Smriti and Darshan Samiti, Govt. of India on "Legacies of Gandhi and Mandela and its Contemporary Relevance" 18-19 July 2019, at Conference Centre, University of Delhi.

Seminar/Conference Presentations

The team Gandhi study Centre also took active participation in an International Conference entitled "Tolstoy to Gandhi: A Philosophical Journey" organized by Gandhi Bhawan, University of Delhi on 21-22 November 2019.

Library Development

Number of Text Books added in Text Book Section: 302

General/Other Books added in General Section: 1150

Faculty Strength

Permanent: 44

Adhoc: 40

Financial Allocation and Utilization

Grant sanctioned: Rs. 283648000

Utilized: Rs. 251245000

UNIVERSITY HOSTELS/HALLS

AMBEDKAR-GANGULY STUDENTS' HOUSE FOR WOMEN

Ambedkar-Ganguly Students' House for Women was started in October 2003 and is being maintained by the University of Delhi. It is by and large a self-sustaining residence for post graduate women students of University of Delhi. It can accommodate upto hundred residents and two guest residents. For the academic session 2019-20, the hostel reopened on 29th July, 2019 and admission of the students started from 13th August.

Various cultural activities were held in the Hostel like Independence Day, Gandhi Jayanti, Swachhata Abhiyan, Diwali, Fresher's party, Christmas Day, Lohri, Republic Day, Holi. The annual function of the Hostel was celebrated on 24th February, 2020 with pomp & show. The theme of the annual function was "Incredible India". The students performed several musical and cultural activities.

ARAVALI POST GRADUATE MEN'S HOSTEL

Aravali Post Graduate Men's Hostel was established in 2005 by University of Delhi, South Campus to provide accommodation facilities for the bonafide Research Scholars and Post Graduate students of South Campus, University of Delhi. Aravali hostel also provides accommodation to trainees coming to south campus under INSA/DST's INSPIRE programme and trainees from other institutions as well, especially during summer vacation.

The hostel celebrated Independence Day, and Republic Day. A consistently monitored quality food is provided by the hostel to the residents. Besides this, a recreation facility is also available in the dining hall with television along with the D2H facility. Kitchen and Dining has been equipped with Deep freezer, High capacity refrigerator, desert cooler, reverse osmosis water purifier and other quality kitchen equipment.

CENTRAL INSTITUTE OF EDUCATION HOSTEL

The Central Institute of Education has two hostels, Shree Bhawan for women and Shakti Bhawan for men, established in 1950. Shree Bhawan has eight rooms accommodating twenty three female students and Shakti Bhawan has three dormitories and one two seater room accommodating twenty four male students. The hostels accommodate students from B.Ed., M. Ed., M.Phil. and Ph.D. programmes.

The Hostel organizes periodic meetings on issues related to awareness and general maintenance and discussions, nukkad nataks, etc. Apart from the Hostel Mess Committee, two other committees have been constituted i.e. cleanliness and grievance committees. In the month of November, 2019 the hostel organized a one day picnic tour to Jaipur (Rajasthan). In the month of March, 2019, the hostel organized a two hours awareness session on Covid-19 for all residents in convergence with the Covid-19 for all residents in convergence with the Covid-19 Departmental Committee. During the Lockdown period five residents stayed in the hostel and we made all necessary arrangements including food, sanitizers and masks, etc for their safety.

D. S. KOTHARI HOSTEL

The Hostel celebrated Independence Day, Id-ul-Zuha, Gandhi Jayanti, Dussehra, Diwali, Christmas Day, New Year, Lohri, Republic Day, Saraswati Puja, Holi.

The hostel has several committees like Anti-ragging Committee, Anti-smoking Committee, North-eastern Committee, Mess Committee, Sexual Harrasment Committee. Several facilities are extended to students which are Common Room, T.V. Room, Mess, Computer Room, Union-cum-Reading Room, Gym Room, Guest Room. There are 5% sanctioned seats for PWD Students in this hostel. The following facilities have been provided to PWD Residents: Wheel Chair, PWD toilets and Wash Room, Ramp, Computer Screen Reader Software with headphone facility for visually challenged residents.

GEETANJALI HOSTEL

Geetanjali hostel organized many cultural and sports events in which the staff and students participated with enthusiasm. Independence day, Swachch Bharat Abhiyan and several other literary and environmental activities were held.

As per the University guidelines students were asked to vacate the hostel. Arrangements were made for the basic functioning of the hostel since a few students were unable to travel in the lockdown. The hostel increased sanitization on its premises as preparedness for the coming days.

The following Committees are functional in the hostel: Anti-racial and north-east committee, Anti –ragging committee, Internal complaints committee, Internal disciplinary committee.

The students are provided several facilities like well-equipped gym and sport equipment, Television in common room, Music system with speaker, Computer and reading room, Sanitary Pad dispensing machine, Library with some books for general reading, Refrigerators, Induction cook top for each floor, Microwave, Washing machines. The hostel is secure with sufficient lighting on the premises and four CCTV cameras at relevant areas.

GWYER HALL

Gwyer Hall is the oldest & prestigious Post Graduate Hostel for men in the University of Delhi. The unique distinctive feature of this hostel is both students and faculty members live and dine together.

During the academic year 2019-2020 Hostel had celebrated Ambedkar Jayanti, Farewell cum Hostel Night, Lecture was organized on ‘New Education Policy 2019’, inter and “Lekhak ka Samvad” , Freshers Party, Saraswati Puja, International Women’s Day. Gwyer Hall also organized several lectures delivered by Alumni. The Gwyer Hall participated in the 62 annual flower Show organized by the University of Delhi and won Delhi School Economic Cup, the Hansraj college Cup, the Ved Prakash cup, Delhi School of Social Cup. The Hall was awarded 2nd Prize for the year 2019-2020.

The following Committees were constituted: Sexual Harassment Committee, Anti-Smoking & Anti Substance Abuse Drugs Committee, Anti-Ragging & Disciplinary Committee.

INTERNATIONAL STUDENTS' HOUSE

The International Students' House was set up in 1964 by Indian Council for Cultural Relations, Ministry of External Affairs for foreign students and postgraduate Indian students. There are 98 rooms and all are single seated. During the academic year 2019-20, 68 foreign students from 29 countries in addition to 30 Indian students were admitted in the House, presenting an amalgamation and diverse mosaic of International and Indian cultures. Because of its international nature, ISH occupies a special position in the hostel system of Delhi University.

The House celebrated Independence Day, Gandhi Jayanti, Deepawali, Christmas, New Year's Day, Republic Day, Lohri, Swami Vivekananda Jayanti, Id-ul-Fitr, Id-ul-Zuha, Saraswati Pooja, many foreign New Year's Day and Holi with gusto and enthusiasm. These occasions created an opportunity for the International Students to know about the Indian Culture and the Indian students to be aware about the foreign cultures. The ISH celebrates its 56th year Annual fest, Milestone "20" on 7th March, 2020 with great enthusiasm and joy. Many distinguished guests from the Delhi University and diplomats of various countries were also attended the colourful event. A special dinner was organized for the guests and the residents on this occasion, which was hosted by the Indian Council for Cultural Relations, Azad Bhavan New Delhi (Ministry of External Affairs).

The Provost has constituted a number of committees from time to time to deal with particular issues Anti Ragging Committee, North Eastern Committee, Sexual Harassment Committee, Anti-Smoking Committee, Holi Committee, Disciplinary Committee, Swachhta Abhiyan Committee

INTERNATIONAL STUDENTS' HOUSE FOR WOMEN

Established on June 3, 2002 the multicultural character of the International Students' House for Women is central to all the activities organized by the House. Residents from more than 32 countries jointly celebrate their cultural festivals and important national occasions in the spirit of harmony and friendship.

Embassy meet was organized (04-07-2019) and was attended by representatives from Nepal, Culture Counsular, Bhutan, Education Attaché, Bulgaria, First Secretary Guyana, First Secretary Mauritius, Representative of the Ambassador, Indonesia, Education and Cultural Attache, Bangladesh, Second Secretary, Iran, Consular Officer, Other events celebrated over the year were Independence Day, "Musical Event " Swachh Bharat Mission, Orientation Programme, SWA election, Food safety, Hygiene & Sanitation, Safe & Wholesome Food a Freshers' Party, Diwali, Christmas, New Year Lohri. ISHW won the best Mali Award in the Annual Flower Show.

Various committees were formed for smooth functioning of the Hostel namely: Cultural Committee, Sports Committee, Library Committee, House-Keeping Committee, Mess Committee Anti Ragging Committee and Disciplinary Committee, Caste Based Discrimination Committee, Anti-Smoking Committee, and Holi Committee.

To enrich the Hostel life for not only the students but also the Hostel staff, following is ensured:

Monthly get-together with the Hostel staff. This has facilitated bonding among the members and better job satisfaction. Frequent meetings with the dignitaries from the embassies within the Hostel premises to ensure mutual cooperation and understanding of the Hostel system by the embassies.

JUBILEE HALL

Jubilee Hall is a prime Hall of residence for full time post graduate & research students of the University of Delhi. It was founded in 1947 on the occasion of the Silver Jubilee of the University. The internal administration & discipline of the Hall is vested in the Provost who is assisted by a Warden and a Resident Tutor. Like every year, a number of residents were selected for the higher posts in all India Competitive Services of Govt. of India.

The Hall performed a number of activities which include: The annual function “**Jubilation**”, Saraswati Pooja, Holi, Id, Independence Day, Deepawali and Christmas.

MANSAROWAR HOSTEL

Mansarowar Hostel is a Men's Hall of residence for full -time post-graduate and research students having capacity to accommodate 165 residents coming from various parts of India and abroad for higher studies in University of Delhi.

On the occasion of Independence Day and Republic Day, National Flag was unfurled. The festivals like Dusshera, Diwali, Holi, Eid, Saraswati Puja, Christmas, Gandhi Jayanti and Ambedkar Jayanti were also celebrated in the hostel premises.

The following Committees were constituted: Anti-Ragging Committee, Disciplinary Committee, Sexual Harassment Committee, Anti-Smoking & Anti Substance Abuse Drugs Committee, SC/ST/OBC Committee North-east Committee.

MEGHDOOT HOSTEL

The Meghdoot Hostel observed a number of festivals including Dussehra, Diwali, Lohri, Pongal and Bihu Saraswati Puja, and Christmas with a lot of enthusiasm. Meghdoot Hostel participated in the 62nd Annual Flower Show held on 29th February 2020 by giving different entries of flowers. The Hostel has been awarded with The Treasurer's Cup and The M.M. Beg Cup.

NORTH EASTERN STUDENTS' HOUSE FOR WOMEN

North Eastern Students' House for Women was established in 2002. NESHW has 101 single rooms and 1 guest room fitted with Air conditioner and attached bath. Out of 101 rooms, 70% of the seats are reserved for the girls from North Eastern Region, and 30% for the girls from rest of India. During the year, outstanding celebrations were done on Independence Day, Republic day, Diwali, Christmas, Lohri and other festive days. Two events are the main events of the hostel, Food Fete when exotic food is cooked by North-East girls using their native spices, and Annual Cultural night- Ethnikos, which is not celebrated this year because of Covid-19 pandemic.

Currently the hostel has 07 Committees which established as per the statutory requirements, namely Anti Ragging Committee, No Smoking Committee, Substance abuse (Drugs) Committee, Committee on prevention of Caste based discrimination, Internal Complaint Committee, Holi Celebration Committee, Nature Preservation Committee.

POST GRADUATE MEN'S HOSTEL

The following academic and cultural activities were organized in the Hostel: Intra Hostel Sports meet in the hostel, Ajit Singh Yadav Memorial Debate, Dr. Ambedkar Jayanti, Several festivals and days of Importance were also observed including Eid, International Yoga Day, Independence Day, Diwali, New Year eve, Lohri, Republic Day, Holi.

The Committees in place in the Hostel include: Common Room Committee, Cultural Committee, . Health & Hygiene Committee, Sports Committee, Mess Committee, Anti Ragging and Disciplinary Committee, Holi Committee, Anti Smoking Committee

The Hostel has significantly in terms of facilities such as TV/Common room, Air conditioned library cum computer lab with internet with Wi-fi facilities, Gym with motorized treadmill, laundry and also semi automatic washing machines on each floor, photocopy outlet, two badminton courts and recreation hall.

RAJIV GANDHI HOSTEL FOR GIRLS

The Rajiv Gandhi Hostel for Girls (RGHG) is a very spacious and beautiful Hostel situated at Dhaka Hostel Complex. The Hostel Complex is by and large a self-sustained residence for women students (post graduate and research scholars). This Hostel started functioning in July, 2012.

The Hostel commemorated national festivals like Independence Day and Republic Day. Festivals such as Holi, Diwali, Christmas, Lohri and Sarsawati Puja are celebrated with much excitement and energy. The most awaited function of the hostel i.e. "RAGAAZ" is organized by the Hostel Welfare Association comprising of residents.

RGHG Hostel formed the following committees to strengthen a feeling of security among girls' students and smooth functioning of the Hostel: Anti-Ragging Committee, Anti-Smoking Committee, Anti-Sexual Harassment Committee, Cultural Committee, Racial Discrimination Committee, Mess Committee, Cleanliness Committee.

SARAMATI POST GRADUATE MEN'S HOSTEL

Every year Hostel administration constitutes Disciplinary Committee, Cultural Committee, Mess Committee, and Sports Committee for smooth functioning of various hostel facilities.

The hostel celebrated New Year evening and national festivals like Independence Day, Republic Day and national flag was unfurled in presence of hostel residents and staff. Saramati and Aravali Hostels have not organized Annual cultural event "MILANGE 2020" due to pandemic Covid-19. In addition, **Hostel Committees**

Hostel has a recreation room and common reading room with several newspapers and magazines. The hostel also provides gymnasium and sports facilities for indoor games such as table tennis, chess, carom-board etc. The Hostel is equipped with Wi-Fi facility to provide smoother and faster internet service to the residents. Hostel has installed CCTV with 8 cameras at the important places to have a better security system and surveillance. Hostel has a double occupancy Guest Room and Guest house equipped with the Air

Conditioner and Heat Convector. Both of the facilities are open for the visiting guests and parents of the residents.

SOCIAL WORK HOSTEL

The Hostel became functional from 16th July, 1966. Being an attached hostel within the Department premises, it adds to the development of the overall personality of the social work students and helps in reinforcing their professional elements. The campus is quite friendly towards persons with disabilities.

DSW Hostel has its own website <http://dswh.du.ac.in> which provides information about the hostel. In addition to the existing facilities, further facilities and services have been added to the department hostel in the present academic year 2019-2020. Some of which are: Creation of reading rooms in each wing of the hostel, Creation of Isolation rooms in each wing of the hostel, Provision of PNG line (gas line) in the hostel mess

UNDER GRADUATE HOSTEL FOR GIRLS

The hostel organizes various events to keep the students engaged in productive activities. This year, a small interaction session was organized by Leaders for Tomorrow, a not for profit organization. M/s Apollo Hospital Enterprises Ltd. organized a free health checkup camp and Mukherjee Nagar Police station organized a program for introducing 'HIMMAT APP'. Department of Food Safety, Government of NCT of Delhi organized a special awareness program for Hostlers and kitchen staff in Girls' Hostel about food safety, Hygiene & Sanitation as well as about anemia (especially in Girls & Women).

The hostel participated in the Delhi University Flower show held on 29th February, 2020 and won several prizes.

UNIVERSITY HOSTEL FOR WOMEN

Established in 1973, University Hostel for Women (UHW) is an important landmark of the University of Delhi. The Hostel has a capacity of 320 seats for post graduate & research women students hailing from various parts of the country and abroad and provides ample opportunities and occasions for blossoming of the resplendent spirit of womanhood.

The following celebrations were organized in 2019-2020; Diwali, New Year Eve, Lohri, Saraswati Puja and Holi. The hostel also celebrate National festivals and activities to increase consciousness which include Independence Day, Swachcha Bharat Abhiyaan, Republic Day

The hostel has several committees which include: Anti-Smoking Committee, North Eastern Committee, Cultural Committee, Mess Committee. Cleanliness Committee:

V. K. R. V. RAO HOSTEL

Each academic year the residents of the hostel celebrate national days including Independence Day, Republic day and Gandhi Jayanti with gaiety and fervor. The residents of the hostel celebrate various festivals covering Diwali, Lohri, Saraswati Puja, and Christmas Eve with a lot of enthusiasm. Cultural events of the hostel begin with the Freshers' welcome at the beginning of the session and ends with the Farewell Party towards the end of the session. The hostel annual cultural extravaganza UMANG, the most sought-after program could not be celebrated due to closure of the University. As the hostel is exclusively occupied by the Residents of Faculty of Management Studies and Delhi School of Economics, so the placement is above 90 percent.

The hostel has constituted a SEWA Committee to cater to the needs and welfare of the residents. Further it has constituted many other committees including Anti-ragging Committee Welfare of North East Students, Grievance Committee for students that encompasses all issues confronting the residents of the hostel.

WUS UNIVERSITY HOSTEL

WUS University Hostel is residence for Women, Teachers of the University, Visiting Teachers and Post-Doctoral Researchers, with a capacity of 18 Rooms. The Hostel was taken over by the University from the World University Services in 1990.

The following facilities have been provided to the residents: Visitor's Room (Air conditioned), Colour T.V., Refrigerators, Newspapers (Hindi and English), Water Cooler with RO system, CCTV, Washing machine

The resident celebrates the various festivals like Diwali, Christmas, Holi, New Year. The Mess is run by residents on a co-operative basis. However, the infrastructure for the Mess facility is being provided by the Hostel.

ANNUAL ACCOUNTS FOR THE YEAR 2019-20

INDEX

Sr. No.	Name of Statement
	<u>A. University of Delhi</u>
1	Balance Sheet
2	Income and Expenditure Account
3	Schedule forming Part of Balance Sheet: Schedule 1,2,3,4,5,6,7,8
4	Schedule forming Part of Income & Expenditure : Schedule 9,10,11,12,13,14,15,16,17,18,19,20,21,22.
5	Significant Accounting Policies : Schedule 23
6	Contingent Liabilities and Notes on Accounts : Schedule 24
7	Receipts & Payments Account
	<u>B. Provident Fund Account</u>
8	Balance Sheet
9	Income and Expenditure Account
10	Receipts and Payments Account
	<u>C. New Pension Scheme</u>
11	Balance Sheet
12	Income and Expenditure Account
13	Receipts and Payments Account
	<u>D. University Press</u>
14	Balance Sheet
15	Profit and Loss Account
16	Receipts and Payments Account
	<u>E. Halls and Hostels</u>
17	Consolidated Balance Sheet
18	Consolidated Income and Expenditure Account
19	Consolidated Receipts and Payments Account

UNIVERSITY OF DELHI
BALANCE SHEET AS AT 31st MARCH, 2020

Particulars	Schedule	Amount in `	
		Current Year	Previous Year
SOURCES OF FUNDS			
CORPUS/CAPITAL FUND	1	(21689232544)	(16300485154)
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	8747162952	7679054711
CURRENT LIABILITIES & PROVISIONS	3	35553633997	29980071347
TOTAL		22611564405	21358640904
APPLICATION OF FUNDS			
FIXED ASSETS			
Tangible Assets	4	3537042788	3702203920
Intangible Assets		1017670	1398111
Capital Works-in-Progress		122872429	122872429
INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS	5	883083000	883083000
INVESTMENT – OTHERS	6	-----	-----
CURRENT ASSETS	7	14983967956	13743862296
LOANS, ADVANCES & DEPOSITS	8	3083580561	2905221148
TOTAL		22611564405	21358640904
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		

UNIVERSITY OF DELHI
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2020

Particulars	Schedule	Current Year	Previous Year
Amount in `			
<u>INCOME</u>			
Academic Receipts	9	1042341319	920718581
Grants / Subsidies	10	5706460022	5265660407
Income from Investment	11	27271669	52734780
Interest Earned	12	15030915	57188754
Other Income	13	106317304	83506316
Prior Period Income	14	-----	-----
TOTAL (A)		6897421229	6379808838
<u>EXPENDITURE</u>			
Staff Payments & Benefits (Establishment expenses)	15	10581371046	6681419208
Academic Expenses	16	427504772	562118283
Administrative and General Expenses	17	782505609	908848745
Transportation Expenses	18	-----	10080
Repairs & Maintenance	19	179902718	199746212
Finance costs	20	207420	156089
Depreciation	4	399715568	442567008
Expenditure on Grants, Subsidies etc.	21	142885040	145980806
Prior Period Expenses	22	683230	1298098067
Decrease in Stock		6629445	3295165
TOTAL (B)		12521404847	10242239664
Balance being excess of Income over Expenditure/ (Expenditure over Income) (A- B)		(5623983619)	(3862430826)
Transferred to / from Designated Fund			
Balance being Surplus/(Deficit) carried to Capital Fund		(5623983619)	(3862430826)
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 1 - CORPUS/CAPITAL FUND	Amount in `	
	Current Year	Previous year
Balance at the beginning of the year	(16300485154)	(12634827345)
Add: Contributions towards Corpus/Capital Fund - Plan A/c	-----	-----
Add: Contributions towards Corpus/Capital Fund	-----	-----
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure		
(a) Plan Accounts	1962696	55298928
(b) Non-Plan Accounts (salary/Recurring grant)	72895450	79959314
(c) Non-Plan Accounts(Capital Assets)	83892717	30384385
	158750863	165642627
Add: Assets Purchased out of Earmarked Funds		
(a) Miscellaneous Accounts	14247900	15096229
(b) Other Earmarked Funds	52720896	4654189
	66968796	19750418
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution		
Add: Assets Donated/Gifts Received	60	785
Add: Assets of Project Closed	8529436	14486860
Add: Adjustment related to previous year(SDC)	1062234	----
	9591730	14487645
Less: W.D.V. of Assets disposed off during the year	(75160)	(3107673)
Add: Excess of Income over expenditure/(Excess of Expenditure Over income) transferred from the Income & Expenditure	(5623983619)	(3862430826)
Balance at the year end	(21689232544)	(16300485154)

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 2 - DESIGNATED/EARMARKED/ENDOWMENT FUNDS

Amount in ₹

Particulars	Funds wise breakup				Total	
	Misc. A/c	Publication	Endowment Funds	Other Earmarked	Current Year	Previous Year
A.						
a) Opening balance	838217219	6280670	908471328	5926085494	7679054711	6812347938
b) Additions during the year						2810714
(i) Income from investments made of the funds	25456258	300395	42537441	49514265	117808359	277041117
(ii) Accrued Interest on Investments/Advances	36195832	103175	21703256	173251178	231253441	159211572
(iii) Interest on Savings Bank a/c	1044329	19120	1292459	14197671	16553579	8025623
(iv) Other additions (specify nature)	239975295	1230	527564	826709793	1067213882	828117695
Total(A)	1140888933	6704590	974532048	6989758401	9111883972	8087554659
B.						
Utilization/Expenditure towards objectives of funds						
ii) Capital Expenditure	14247900	----	----	52720896	66968796	19750418
ii) Revenue Expenditure	203343967	----	13640904	80767353	297752224	388749530
Total(B)	217591867	0	13640904	133488249	364721020	408499948
Closing balance at the year-end (A-B)	923297066	6704590	960891144	6856270152	8747162952	7679054711
Represented by						
Cash And Bank Balances						
Current Accounts	18535545				18535545	12912664
Saving Accounts	51229082	1184875	98801352	598990997	750206306	425422134
Investments	18000000	300000	319800000	544900000	883000000	883000000
Fixed Deposit	785248625	5075325	516043486	5443814088	6750181524	6095826020
Interest accrued but not due	36195832	79047	21703256	173731384	231709518	160242318
Shares	----	----	83000	----	83000	83000
Other Loan & Advances	7691353	----	----	45603382	53294735	39801488
Loan from UDF to Misc	----	----	----	----	----	30000000
LC Margin	----	----	----	----	----	----
Electricity Deposits	----	----	----	9409500	9409500	9409500
TDS's refundable	6483435	65343	4460050	39820801	50829629	24027612
Maintainance grant a/c	(86805)	----	----	----	(86805)	(1670025)
Total	923297066	6704590	960891144	6856270152	8747162952	7679054711

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 2A - ENDOWMENT FUNDS

											Amount in `
1. Sr. No.	2. Name of the Endowment	Opening Balance		Additions during the Year		Total		Closing Balance		Total (10+11)	
		3. Endowment	4. Accumulated Interest	5. Endowment (Misc.Receipt s)	6. Interest	7. Endowment (3+5)	8. Accumulated Interest (4+6)	9 Expenditure on the object during the year	10. Endowment		11. Accumulated Interest
1	Sir Shankar Lal Instt. Of Music (298355)	2422949	344636	137195	68374	2560144	413010	38160	2560144	374850	2934994
2	Shri Sri Ram Chair in Physics 25456258	7556240	2779370	519244	225811	8075484	3005181	0	8075484	3005182	11080666
3	Shri Shankar Lal Chair in Chemistry (298402)	8423532	3105820	519298	276208	8942830	3382028	30	8942830	3381998	12324828
4	IFC Chair in Faculty of Mgmt. studies (298683)	15048157	5536170	1111483	385284	16159640	5921454	0	16159640	5921454	22081094
5	SP Jain Advanced Mgmt. Research (299041)	2078821	695072	100748	90139	2179569	785211	1	2179569	785211	2964780
6	Pt. Man Mohan Nath Dhar (298956)	1346119	494789	75895	56699	1422014	551488	0	1422014	551488	1973502
7	Professorship in Economics (298741)	13875946	5243848	847150	515852	14723096	5759700	0	14723096	5759700	20482796
8	Publication of Orient Insect (299416)	585717	199496	36856	18203	622573	217699	0	622573	217699	840272
9	DU Endowment Fund (299733)	252474411	54344979	15467369	7427164	267941780	61772143	2158100	267941780	59614043	327555823
10	Pt. Man Mohan Krishan Kaul (299880)	1606344	588179	85512	75322	1691856	663501	0	1691856	663501	2355357
11	Book Grant RTL (300228)	295037416	74092703	15989164	10286949	311026580	84379652	11344581	311026580	73035071	384061651
12	DU Amway Professorship in Enter. Dev. (300705)	12223482	4166007	781038	353746	13004520	4519753	0	13004520	4519753	17524273
13	Cluster Innovation Centre Corpus Fund	108139103	33215190	7333028	3148890	115472131	36364080	30	115472131	36364051	151836182
14	MHRD IPR CHAIR	488	6735	0	248	488	6983	0	488	6983	7471
15	State Bank of India Scholarship (Advacne RPA Scholarship) (46397)	2703214	136394	61025	66826	2764239	203220	100003	2664236	203220	2867456
Total		723521939	184949389	43065005	22995715	766586944	207945103	13640905	766486941	194404203	960891144

Notes

1. The total of Columns 3 & 4 will appear as the opening balance in the column "Endowment Funds" in Schedule2, of Earmarked Funds forming part of the Balance Sheet.
2. The total of Col.9 should normally be less than the total of Col. 8, as only the interest is to be used for the expenditure on the object of the endowments. (except Endowments for Chairs)
3. There should not normally be a debit balance in the schedule. If in a rare case, there is a debit balance against any of the Endowment Funds, the debit balance should appear on the Assets side of the Balance Sheet as "Receivables", in Schedule-8 Loans, Advances & Deposits.

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS	Current year	Amount in ` Previous Year
A. CURRENT LIABILITIES		
1. Deposits from staff	-----	-----
2. Deposits from students	-----	-----
3. Sundry Creditors		
a) For Goods	8003398	12277710
b) Others	-----	-----
4. Deposit-others (including EMD, Security Deposit)	420627	378068
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS)		
a) Other Bodies Transaction	1969425	4314496
b) Duties & Taxes	2834378	799134
6. Other Current Liabilities		
a) Salaries	-----	-----
b) Receipts against Sponsored Projects	1690035093	1645776335
c) Receipts against Sponsored Fellowships & Scholarships	107867697	86932037
d) Unutilized Grants	6598118147	6076211611
e) Amount refundable to UGC	63179787	24433545
f) Grants in advance	-----	-----
g) Other funds	305861331	114388107
h) Other liabilities	35037107	8330586
Total (A)	8813326989	7973841629
B. Provisions		
1. For Taxation	-----	-----
2. Gratuity	1448548177	1371782081
3. Superannuation Pension	23644829981	19335915063
4. Accumulated Leave Encashment	1463038346	1211502217
5. Trade Warranties/Claims	-----	-----
6. Others (Specify)/Expenses Payable	183890504	87030357
Total (B)	26740307008	22006229718
Total (A+B)	35553633997	29980071347

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE - 3 (a) SPONSORED PROJECTS

							Amount in `	
1	2	3	4	5	6	7	8	
Sr. No.	Name of the Project	Opening Balance		Receipts/Recoveries during the year	Total	Expenditure during the year	Closing Balance	
		Credit	Debit				Credit	Debit
1	Research Scheme A/c (295853)	537285035		144850015	682135050	127748733	554386317	
2	IASE Scheme A/c (Educ) (295853)	1088786		1148500	2237286	658134	1579152	
3	Research Scheme A/c (SDC)(546386)	817957166		334911269	1152868435	301844726	851023709	
4	B.R.A. Project A/c (298264)	61934785		27132722	89067507	35560620	53506887	
5	Young Research Scientist A/c (298593)	184730464		48037755	232768219	49549469	183218750	
6	CEMDE\Bio-Diversity Park (DDA)	42780099		90500199	133280298	86960020	46320278	
Total		1645776335		646580460	2292356795	602321702	1690035093	
Previous Year (2018-19)		1499877620		775945163	2275822783	630046448	1645776335	

1. The Projects may be listed agency-wise, with sub-totals for each agency.
2. The total of Col. (credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).
3. The total of Col. 9 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 3(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

Sr. No	Name of Sponsor	Amount in `					
		Opening Balance As on 01.04.19		Transactions During the year		Closing Balance As On 31.03.20	
		3	4	5	6	7	8
1	2	CR.	DR.	CR.	DR.	CR.	DR.
1	CSIR Fellowship (298413)	36160566		13148059	4211544	45097081	
2	UGC Fellowship (298560)	7195119		7112212	417072	13890259	
3	Other Bodies Scholarship (298707)	39705330		43520783	38799107	44427006	
4	CSIR Fellowship (SDC) (545269)	41820		596551	283259	355112	
5	UGC Fellowship (SDC) (545258)	3829202		269686	649	4098239	
Total		86932037	0	64647291	43711631	107867697	0
Previous Year (2018-19)		95731206	0	86599053	95398222	86932037	0

Note:

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).

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SCHEDULE 3(c) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

	Current Year	Amount in ` Previous Year
A. Plan grants: Government of India		
Balance B/F		
Add: Receipts during the year		
Total(a)	0	0
Less: Refunds		
Less: Utilized for Revenue Expenditure		
Less: Utilized for Capital Expenditure		
Total (b)	0	0
Unutilized carried forward (a-b)	0	0
 B. UGC grants Plan		
Balance B/F	5790807813	5587750339
Add: Receipts during the year	538293420	285864306
Total (c)	6329101233	5873614645
Less: Refunds		
Less: Utilized for Revenue Expenditure		
Less: Utilized for Capital Expenditure		
Total (d)	18656297	82806832
Unutilized carried forward (c-d)	6310444936	5790807813

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

Amount in `

C. UGC Grants non-Plan(for salary and recurring)		
Add: Receipts during the year	5738824000	5312400000
Total(e)	5738824000	5312400000
Less: Refunds	0	0
Less: Utilized for Revenue Expenditure	5665928551	5232440686
Less: Utilized for Capital Expenditure	72895450	79959314
Total (f)	5738824000	5312400000
Unutilized carried forward (e-f)		0
D. Grants from UGC for Capital Assets		
Balance B/F	285403798	0
Add: Receipts during the year	110000000	321500000
Total(g)	395403798	321500000
Less: Refunds		
Less: Utilized for Revenue Expenditure	23837870	5711817
Less: Utilized for Capital Expenditure	83892717	30384385
Total (h)	107730587	36096202
Unutilized carried forward (g-h)	287673211	285403798
Grand Total(A+B+C+D)	6598118147	6076211611

Notes:-

Unutilized grants includes advances on Capital Account.

Unutilized grants include grants received in advance for the next year.

Unutilized grants are represented on the Assets side by Bank balances, Short term Deposits with Banks and Advances on Capital Account.

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 4 - FIXED ASSETS

										Amount in `
Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation Related to prior period	Depreciation for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
1	Land		19716892	0	0	19716892	0	0	19716892	19716892
2	Site Development/Minor work		0	0	0	0	0	0	0	0
3	Buildings	5%	3141824501	49284022	0	3191108523	0	159555426	3031553097	3141824501
4	Roads & Bridges		0	0	0	0	0	0	0	0
5	Tube wells & Water Supply		0	0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0	0
7	Electrical installation and equipment		0	0	0	0	0	0	0	0
8	Plant & Machinery	20%	175630358	41867220	60266	217437312	0	43487462	173949850	175630358
9	Scientific & Laboratory Equipment	40%	137142883	67632499	3307	204772075	0	81908830	122863245	137142883
10	Office Equipment		0	0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	1044980	895424	4	1940400	0	970200	970200	1044980
12	Computers & Peripherals	40%	115751070	32287215	10432	148027853	0	59211141	88816712	115751070
13	Furniture, Fixtures & Fittings	25%	66813892	16334204	778	83147318	0	20786830	62360488	66813892
14	Sports Equipment	50%	7193	0	0	7193	0	3597	3596	7193
15	Vehicles	25%	760457	0	0	760457	0	190114	570343	760457
16	Lib. Books & Scientific Journals	50%	40201694	25655409	373	65856730	0	32928365	32928365	40201694
17	Small Value Assets		0	0	0	0	0	0	0	0
18	Work of Art		3310000	0	0	3310000	0	0	3310000	3310000
Total (A)			3702203920	233955992	75160	3936084753	0	399041965	3537042788	3702203920
19	Capital Work in Progress (B)		122872429	0	0	122872429	0	0	122872429	122872429
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation Related to prior period	Amortization for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
20	Computer Software	40%	1378738	293162	0	1671900		668760	1003140	1378738
21	E-journals	25%	0	0	0	0		0	0	0
22	Patents	25%	19373	0	0	19373		4843	14530	19373
Total (C)			1398111	293162	0	1691274	0	673603	1017670	1398111
Grand Total (A+B+C)			3826474460	234249154	75160	4060648456	0	399715568	3660932888	3826474460
Previous year (2018-19)			5370366518	4142834138	3946061121	5567139535	1298098067	442567008	3826474460	

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.
The figure in column ' Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 4A - PLAN

											Amount in `
Sr. No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation Related to prior period	Depreciation for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019	
1	Land		0	0	0	0	0	0	0	0	
2	Site Development/Minor work		0	0	0	0	0	0	0	0	
3	Buildings	5%	694979545	0	0	694979545	0	34748977	660230568	694979545	
4	Roads & Bridges		0	0	0	0	0	0	0	0	
5	Tube wells & Water Supply		0	0	0	0	0	0	0	0	
6	Sewerage & Drainage		0	0	0	0	0	0	0	0	
7	Electrical installation and Equipment		0	0	0	0	0	0	0	0	
8	Plant & Machinery	20%	75656034	85349	0	75741383	0	15148277	60593106	75656034	
9	Scientific & Laboratory Equipment	40%	87553136	1601545	0	89154681	0	35661872	53492809	87553136	
10	Office Equipment		0	0	0	0	0	0	0	0	
11	Audio Visual Equipment	50%	238878	0	0	238878	0	119439	119439	238878	
12	Computers & Peripherals	40%	89683880	31415	2292	89713003	0	35885201	53827802	89683880	
13	Furniture, Fixtures & Fittings	25%	21905318	0	0	21905318	0	5476330	16428988	21905318	
14	Sports Equipment	50%	0	0	0	0	0	0	0	0	
15	Vehicles	25%	231794	0	0	231794	0	57949	173845	231794	
16	Lib. Books & Scientific Journals	50%	4441287	244387	0	4685674	0	2342837	2342837	4441287	
17	Small Value Assets		0	0	0	0	0	0	0	0	
18	Work of Art		1310000	0	0	1310000	0	0	1310000	1310000	
Total (A)			975999872	1962696	2292	977960276	0	129440882	848519394	975999872	
19	Capital Work in Progress (B)		121623684	0	0	121623684		0	121623684	121623684	
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation Related to prior period	Amortization for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019	
20	Computer Software	40%	0	0	0	0	0	0	0	0	
21	E-journals	25%	0	0	0	0	0	0	0	0	
22	Patents	25%	8167	0	0	8167	0	2042	6125	8167	
Total (C)			8167	0	0	8167	0	2042	6125	8167	
Grand Total (A+B+C)			1097631723	1962696	2292	1099592127	0	129442924	970149203	1097631723	
Previous year (2018-19)			1435368163	737971426	684059218	1489280371	205936831	185711817	1097631723		

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 4B(1) - NON PLAN(RECURRING)

Amount in `

Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
1	Land		19716892	0	0	19716892	0	19716892	19716892
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	314331463	2718802	0	317050265	15852513	301197752	314331463
4	Roads & Bridges		0	0	0	0	0	0	0
5	Tube wells &Water Supply		0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0
7	Electrical installation and Equipment		0	0	0	0	0	0	0
8	Plant & Machinery	20%	57218722	14614175	60266	71772631	14354526	57418105	57218722
9	Scientific & Laboratory Equipment	40%	16571606	15824250	3307	32392549	12957020	19435529	16571606
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	534091	189148	4	723235	361618	361617	534091
12	Computers & Peripherals	40%	14557345	8279566	8140	22828771	9131508	13697263	14557345
13	Furniture, Fixtures & Fittings	25%	35958013	5795317	778	41752552	10438138	31314414	35958013
14	Sports Equipment	50%	7170	0	0	7170	3585	3585	7170
15	Vehicles	25%	528661	0	0	528661	132165	396496	528661
16	Lib. Books & Scientific Journals	50%	34114558	25302972	373	59417157	29708578	29708579	34114558
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		0	0	0	0	0	0	0
Total (A)			493538521	72724230	72868	566189883	92939651	473250232	493538521
19	Capital Work in Progress (B)		0	0	0	0	0	0	0
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
20	Computer Software	40%	1206430	171220	0	1377650	551060	826590	1206430
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	7493	0	0	7493	1873	5620	7493
Total (C)			1213923	171220	0	1385143	552933	832210	1213923
Grand Total (A+B+C)			494752444	72895450	72868	567575026	93492584	474082442	494752444
Previous year (2018-19)			515739989	79959314	1720953	593978350	99225906	494752444	

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SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 4B(2) -CAPITAL ASSETS

Amount in `

Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
1	Land		0	0	0	0	0	0	0
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	0	3190129	0	3190129	159506	3030623	0
4	Roads & Bridges		0	0	0	0	0	0	0
5	Tube wells &Water Supply		0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0
7	Electrical installation and Equipment	20%	0	0	0	0	0	0	0
8	Plant & Machinery	20%	4392916	18789531	0	23182447	4636489	18545958	4392916
9	Scientific & Laboratory Equipment	40%	7093626	35086683	0	42180309	16872124	25308185	7093626
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	164755	690186	0	854941	427471	427470	164755
12	Computers & Peripherals	40%	7264322	22753900	0	30018222	12007289	18010933	7264322
13	Furniture, Fixtures & Fittings	25%	0	3188426	0	3188426	797107	2391319	0
14	Sports Equipment	50%	0	0	0	0	0	0	0
15	Vehicles	25%	0	0	0	0	0	0	0
16	Lib. Books & Scientific Journals	50%	316908	94600	0	411508	205754	205754	316908
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		0	0	0	0	0	0	0
Total (A)			19232527	83793455	0	103025982	35105740	67920242	19232527
19	Capital Work in Progress (B)		0	0	0	0	0	0	0
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
20	Computer Software	40%	0	99262	0	99262	39705	59557	0
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	0	0	0	0	0	0	0
Total (C)			0	99262	0	99262	39705	59557	0
Grand Total (A+B+C)			19232527	83892717	0	103125244	35145445	67979799	19232527
Previous year (2018-19)			0	30384385	0	30384385	11151858	19232527	0

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SCHEDULE 4 C - INTANGIBLE ASSETS

									Amount in `
Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation/ Amortization for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
1	Patents & Copyrights	25%	19373	0	0	19373	4843	14530	19373
2	Computer Software	40%	1378738	293162	0	1671900	668760	1003140	1378738
3	E-Journals	25%	0	0	0	0	0	0	0
Total			1398111	293162	0	1691273	673603	1017670	1398111
Previous year (2018-19)			2190247	133481	0	2323728	925617	1398111	

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SCHEDULE 4(C) (I) PATENTS AND COPYRIGHTS	Op. Balance	Addition	Gross	Amortization	Net Block 20.....	Net Block 20.....
A. Patents Granted						
1. Balance as on 31.03.20 of Patents obtained in 2019-20 (Original Value - Rs.../-)	----	----	----	----	----	----
2. Balance as on 31.03.20 of Patents obtained in 2019-20 (Original Value - Rs.../-)	----	----	----	----	----	----
3. Balance as on 31.03.20 of Patents obtained in 2019-20 (Original Value - Rs.../-)	----	----	----	----	----	----
4. Patents granted during the Current Year	----	----	----	----	----	----
Total	----	----	----	----	----	----
Particulars	Op. Balance	Addition	Gross	Patents Granted/Rejected	Net Block 20.....	Net Block 20.....
A. Patents Pending in respect of Patents applied for						
1. Expenditure incurred during 20.....	----	----	----	----	----	----
1. Expenditure incurred during 20.....	----	----	----	----	----	----
1. Expenditure incurred during 20.....	----	----	----	----	----	----
Total	----	----	----	----	----	----
C. Grand Total (A+B)						
	----	----	----	----	----	----

Note: The Addition in Part A (Patents granted), will be the figure of patents granted during the year, transferred from Part B (column-Patents granted/rejected). The amount against grants rejected during the year is written off in the income and Expenditure Account

UNIVERSITY OF DELHI
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SCHEDULE 4D - OTHERS

										Amount in `
Sr.No.	Assets Heads	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation Related to prior period	Depreciation for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
1	Land		0	0	0	0	0	0	0	0
2	Site Development/Minor work		0	0	0	0	0	0	0	0
3	Buildings	5%	2132513493	43375091	0	2175888584	0	108794429	2067094155	2132513493
4	Roads & Bridges		0	0	0	0	0	0	0	0
5	Tube wells & Water Supply		0	0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0	0
7	Electrical installation and Equipment		0	0	0	0	0	0	0	0
8	Plant & Machinery	20%	38362686	8378165	0	46740851	0	9348170	37392681	38362686
9	Scientific & Laboratory Equipment	40%	25924514	15120021	0	41044535	0	16417814	24626721	25924514
10	Office Equipment		0	0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	107254	16090	0	123344	0	61672	61672	107254
12	Computers & Peripherals	40%	4245524	1222334	0	5467858	0	2187143	3280715	4245524
13	Furniture, Fixtures & Fittings	25%	8950560	7350461	0	16301021	0	4075255	12225766	8950560
14	Sports Equipment	50%	23	0	0	23	0	12	11	23
15	Vehicles	25%	1	0	0	1	0	0	1	1
16	Lib. Books & Scientific Journals	50%	1328937	13451	0	1342388	0	671194	671194	1328937
17	Small Value Assets		0	0	0	0	0	0	0	0
18	Work of Art		2000000	0	0	2000000	0	0	2000000	2000000
Total (A)			2213432992	75475612	0	2288908604	0	141555689	2147352915	2213432992
19	Capital Work in Progress (B)		1248745	0	0	1248745	0	0	1248745	1248745
Sr.No.	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation Related to prior period	Amortization for the year	W.D.V. as at 31.03.2020	W.D.V. as at 31.03.2019
20	Computer Software	40%	172309	22680	0	194989	0	77996	116993	172309
21	E-journals	25%	0	0	0	0	0	0	0	0
22	Patents	25%	3712	0	0	3712	0	928	2784	3712
Total (C)			176021	22680	0	198701	0	78924	119777	176021
Grand Total (A+B+C)			2214857758	75498292	0	2290356050	0	141634613	2148721437	2214857758

Note : The additions during the year include additions from :

Gifted (books)	60
Project Close (NC + SC)	8529436
Misc. Accounts Fund	14247900
Other Earmarked Fund	52720896
Total	75498292

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

	Amount in `	
SCHEDULE 5 - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS	Current Year	Previous Year
1. In Central Government Securities	883000000	883000000
2. In State Government Securities	----	----
3. Other approved Securities	----	----
4. Shares	83000	83000
5. Debentures and Bonds	----	----
6. Term Deposits with Banks	----	----
7. Others (to be specified)	----	----
Total	883083000	883083000

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULES 5 (A) INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUNDS WISE)

Sl. No.	Funds	Amount in ₹	
		Current Year	Previous Year
1	Misc. Accounts - Govt. Securities	18000000	18000000
2	Publications - Govt. Securities	300000	300000
3	Endowment Fund - Govt. Securities	319800000	319800000
4	Other Earmarked Fund - Govt. Securities	544900000	544900000
5	Endowment Fund - Shares	83000	83000
Total		883083000	883083000

Note : The Total in this sub schedule will agree with the total in Schedule 5.

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 6 - INVESTMENT -OTHERS	Amount in ₹	
	Current Year	Previous Year
1. In Central Government Securities		
2. In State Government Securities	----	----
3. Other approved Securities	----	----
4. Shares	----	----
5. Debentures and Bonds	----	----
6. Other (to be specified)	----	----
TOTAL	----	----

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 7 - CURRENT ASSETS	Amount in ₹	
	Current Year	Previous Year
1. Stock		
a) Stores and Spares	----	----
b) Loose Tools	----	----
c) Publication	----	----
d) Laboratory chemicals, consumables and glass ware	----	----
e) Building material	----	----
f) Electrical material	----	----
g) Stationery	5957925	7236511
h) Water supply material	----	----
i) Liveries	----	----
j) Drugs and Medicines	8657151	10235191
k) Answer Sheet	1354312	5127131
2. Sundry Debtors :		
a) Others Outstanding for a period exceeding six months	----	----
b) Others	10381027	8941820
3. Cash and Bank Balance		
a) With Scheduled Banks :		
-In Current Accounts	131513570	102222076
-In Term Deposit Accounts	11698773012	12388074281
-In Savings Accounts	3126403359	1221087686
b) With non-Scheduled Banks :		
-In Term Deposit Accounts	----	----
-In Savings Accounts	----	----
c) Cash Balance in hand (including cheques\drafts) :	927600	937600
4. Post Office Savings Accounts	----	----
TOTAL	14983967956	13743862296

Note : Annexure "A" shows the details of Bank Accounts

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

Annexure "A"

		Amount in ₹	
I	Current Account	Current Year	Previous Year
1	B R Amedkar Centre General Fund A/c	1012907	236000
2	ICICI Bank A/c	87355	2907408
3	SBI Law Centre II	134017	134017
4	SBI MG I	17902670	14774149
5	SBI MG II	427286	92990
6	SBI MG III	24715847	25567528
7	SDC Examination A/c	31974909	35580154
8	SDC General Fund A/c	26627168	5394655
9	Sponsored Project Bank A/c	1579153	1088787
10	Plan Current A/c	8516713	3533724
11	Current A/cs of Earmarked Fund	18535545	12912664
		131513570	102222076
II	Savings Bank Accounts		
1	External Candidate Cell A/c	5971807	1203472
2	NCWEB A/c	52548029	16502238
3	SBI Departmental Receipt A/c	16611381	7044196
4	SBI General Fund A/c	130787748	22311911
5	SBI Medical Reimbursement A/c	4508288	1761872
6	Sponsored Project Bank A/c	649881330	325521253
7	Sponsored Fellowship and Scholarship	79783341	88714879
8	Plan Savings A/c	286458120	39737770
9	Savings A/cs of Earmarked Fund	750206306	425422134
10	CPF Account refundable to UGC	29743115	106089
11	IDBI Bank A/c	3048646	790661
12	ICICI Bank A/c (Online Fees)	171598118	4954220
13	Recurring A/c	304083753	84649474
14	ICICI Bank A/c-(Exam)-004318	10326026	3268779
15	Capital Assets-36467	179794665	136690389
16	Salary Account-11307	451052686	62408349
		3126403359	1221087686
III	Term Deposit Accounts		
1	FDR from Earmarked Fund(including margin money)	6750181524	6095826020
2	FDR from UGC Refundable A/c	121874	24169694
3	FDR from ACBR A/c	1102166	918073
4	FDR from Maintenance Grants	0	123000000
5	Sponsored Project Bank A/c(including margin money)	898197075	1135737205
6	Sponsored Fellowship and Scholarship	25000000	25000000
7	FDR From Plan A/c (including margin money)	4024170373	3867423289
8	FDR From ICICI Bank A/c	0	9000000
		11698773012	12388074281

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2020

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS	Amount in ₹	
	Current Year	Previous Year
1. Advances to employees (Non-interest bearing)		
a) Salary	----	----
b) Festival	70762	70762
c) Medical Advance		
d) Leave Travel Concession	8476132	7974556
e) Other (to be specified)	----	----
2. Long Term Advances to employees (Interest bearing)		
a) Vehicle Loan/Conveyance/Computer	181830	421940
b) Home Loan/HBA	565230	910650
c) Others (to be specified)	----	----
3. Advances and other amounts recoverable in cash or in kind or for value to be received		
a) On Capital Account	----	----
b) to Suppliers	----	----
c) Delhi University Pension Accounts	2980000	2980000
d) Delhi University Press	17395000	17395000
e) Sir Shankar Lal Chair in Chemistry Fund A/c	1100000	1100000
f) Other Advance out of Earmarked Funds	52547675	38468897
g) Other Advance out of Maintenance Grant A/c	498693117	515617891
h) Other Advances out of Sponsored Projects	81877029	134207222
i) Advance from Plan A/c	1811755584	1725113078
j) Others	91365495	48078224
4. Prepaid Expenses		
a) Insurance	----	----
b) Other Expenses	39318703	34044622
5. Deposits		
a) Telephone	----	----
b) Lease Rent	----	----
c) Electricity	20805300	20805300
d) AICTE, if applicable	----	----
e) DESU (Security)	4795	4795
f) Others	202373	202373
6. Income Accrued:		
a) On Investments from Earmarked/Endowment Funds	231709518	160242318
b) On Investments from ACBR/ UGC Refundable A/c	----	----
c) On Investments from UGC Refundable A/c	7734	33725
d) On Investments from Sponsored Projects	66138832	49972233
e) On Investments from Sponsored Fellowship and Scholarship	2904936	3217158
f) On Investments from Plan	153036150	139931084
g) On Investments from MG.e(ICICI, SDC)	1610924	3578835
h) On Loans and Advances	----	----
i) Others (Electricity Charges Receivable)	695347	712558
7. Other - Current Assets receivable from UGC/sponsored projects		
a) Debit balances in Sponsored Projects	----	----
b) Debit balances in Sponsored Fellowships & Scholarships	----	----
c) Grants Receivable	----	----
d) Other receivables	138095	137927
8. Claims Receivable		
a) RCM Receivable	----	----
TOTAL	3083580561	2905221148

Note :

1. If revolving funds have been created for House Building, Computer and Vehicle advances to employees, the advances will appear as part of Earmarked/Endowment Funds. The balances against these interest -bearing advances will not appear in this schedule.

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

	Amount in ₹	
SCHEDULE - 9 ACADEMIC RECEIPTS	Current Year	Previous Year
FEES FROM STUDENTS		
Academic		
1. Tuition fee	14431892	11047415
2. Admission Fee	8946570	8597053
3. Enrolment fee	69629101	47170557
4. Library Admission fee	8869797	7605517
5. Laboratory fee	187436	274235
6. Sports and Athletic Association Fee	7811581	10984310
7. Computer Fee	----	----
8. Arts & Craft Fee	----	----
9. Registration fee	90353470	142660599
10. Syllabus fee	----	----
11. Other Fees	52809971	41099472
Total (A)	253039818	269439158
Examinations		
1. Admission Test Fee	----	----
2. Annual Examination Fee	720096004	564257945
3. Marksheet, certificate fee	21542336	28239228
4. Entrance Examination Fee	47555402	58748560
Total (B)	789193742	651245733
Other Fees		
1. Identity card Fee	----	----
2. Fine/Miscellaneous Fee	----	----
3. Medical Fee	----	----
4. Transportation Fee	----	----
5. Hotel Fee	----	----
Total (C)	0	0
Sale of Publications		
1. Sale of Admission forms	----	----
2. Sale of syllabus and Question Paper, etc.	107760	33690
3. Sale of prospectus including admission forms	----	----
Total (D)	107760	33690
Other Academic Receipts		
1. Registration fee for workshops, programmes	----	----
2. Registration fees (Academic Staff College)	----	----
Total (E)	-	-
GRAND TOTAL (A+B+C+D+E)	1042341319	920718581

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

SCHEDULE 10- GRANTS/SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)

Amount in ₹

Particulars	Plan		Total Plan	Non Plan UGC		Total MG Grant	Current Year Total	Previous Year Total
	Govt. of India	UGC		capital Assets	Recurring/salary Grant			
		Plan						
Balance B/F	5790807813	0	5790807813	285403798	0	285403798	6076211611	5587750339
Add: Receipts during the year	538293420	0	538293420	110000000	5738824000	5848824000	6387117420	5919764306
Total	6329101233	0	6329101233	395403798	5738824000	6134227798	12463329031	11507514645
Less : Refund to UGC Balance	0	0	0	0	0	0	0	0
Less : Utilized for Capital expenditure (A)	1962696	0	1962696	83892717	72895450	156788167	158750863	165642627
Balance	6327138537	0	6327138537	311511081	5665928551	5977439632	12304578169	11341872018
Less: utilized for Revenue Expenditure (B)	16693601	0	16693601	23837870	5665928551	5689766421	5706460022	5265660407
Balance C/F (C)	- 6310444936	0	6310444936	287673211	0	287673211	6598118147	6076211611

A- Appears as addition to Capital Fund as well as additions to Fixed Assets during the year.

B- Appears as income in the Income & Expenditure Account.

C- (I) Appears under Current Liabilities in the Balance Sheet and will become the opening balance next year.
(II) Represented by Bank balances, Investments and Advances on the assets side.

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

Amount in ₹

SCHEDULE 11- INCOME FROM INVESTMENTS	Earmarked/Endowment Funds		Other Investments	
	Current Year	Previous Year	Current Year	Previous Year
1. Interest				
a. On Government Securities	----	----	----	----
b. Other Bonds/Debentures	----	----	----	----
2. Interest on Term Deposits	349061800	436252689	27271669	52734780
3. Income accrued but not due on Term Deposits/Interest bearing advances to employees.	----	----	----	----
4. Interest on Saving Bank Accounts	16553579	8025623	----	----
5. Others (Specify)	----	----	----	----
Total	365615379	444278312	27271669	52734780
Transferred to Earmarked/Endowment Funds	365615379	444278312		

Note: Interest accrued but not due on Term Deposits from HBA Fund, conveyance advance fund and Computer Advance fund and on interest bearing advances to employees will be included here (Item 3), only where Revolving funds (EMF) for such advances have been set up.

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

SCHEDULE 12 - INTEREST EARNED	Amount in `	
	Current Year	Previous Year
1. On Savings Accounts with scheduled banks	15030915	57188754
2. On Loans		
a. Employee/Staff	-----	-----
b. Others	-----	-----
3. On Debtors and Other Receivables	-----	-----
Total	15030915	57188754

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

SCHEDULE 13 - OTHER INCOME

	Amount in `	
	Current Year	Previous Year
A. Income from Land & Building		
1. Rent from Building/Land etc.	2097900	3135068
2. License fee	27090979	21238721
3. Hire Charges of Auditorium/Playground/Convention Centre, etc.	-----	-----
4. Electricity charges recovered	-----	-----
5. Water charges recovered	-----	-----
Total (A)	29188879	24373789
B. Sale of Institute's publications		
C. Income from holding events		
1. Gross Receipts from annual function/sports carnival	-----	-----
Less : Direct expenditure incurred on the annual function/sports carnival		
2. Gross Receipts from fest	-----	-----
Less : Direct expenditure incurred on the fest		
3. Gross Receipts for educational tours	-----	-----
Less : Direct expenditure incurred on the tours		
4. Others (to be specified and separately disclosed)	-----	-----
Total (C)		
D. Others		
1. Income from consultancy	-----	-----
2. RTI fee	14329	110261
3. Income from Royalty	-----	-----
4. DU recruitment	-----	451351
5. Misc. receipts (Sale of tender form, waste paper, etc.)	1522039	1175700
6. Profit on Sale/disposal of Assets		
a) Owned assets	-----	-----
b) Assets received free of cost	-----	-----
7. Grants/Donations from Institutions, Welfare Bodies and International Organizations	-----	-----
8. Health Centre Contribution	54420692	51524801
9. Others (Specify)	21171364	5870414
Total (D)	77128425	59132527
GRAND TOTAL (A+B+C+D)	106317304	83506316

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

SCHEDULE 14- PRIOR PERIOD INCOME

Particulars	Amount in `	
	Current Year	Previous Year
1. Academic Receipts	----	----
2. Income from Investments	----	----
3. Interest earned	----	----
4. Other Income	----	----
Total	----	----

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

SCHEDULE - 15 STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

<u>Particulars</u>	<u>Amount in `</u>					
	<u>Current Year</u>			<u>Previous Year</u>		
	<u>Plan</u>	<u>Non Plan</u>	<u>Total</u>	<u>Plan</u>	<u>Non Plan</u>	<u>Total</u>
a) Salaries and Wages						
Teaching staff	-----	1943669644	1943669644	-----	1665314377	1665314377
Non-Teaching staff	7264412	1081678575	1088942987	6294106	1077805581	1084099687
Lower Subordinate staff	122701	273301735	273424436	352305	240175343	240527648
b) Allowances and Bonus	-----	-----	0	-----	-----	-----
c) Contribution to Provident Fund	-----	15745642	15745642	-----	6442384	6442384
d) Contribution to other funds (specify)	-----	-----	0	-----	-----	-----
e) Staff Welfare Expenses (Liveries)	-----	46320	46320	-----	1001789	1001789
f) Retirement and Terminal Benefits	997452	6959510531	6960507983	-----	3406519947	3406519947
g) LTC facility	0	15368845	15368845	13942	59922709	59936651
h) Medical facility	0	170629572	170629572	10913	155566493	155577406
i) Children Education Allowance	-----	20576109	20576109		9922635	9922635
j) Honorarium	-----	92459508	92459508		52076684	52076684
k) Others	-----	-----	0	-----	-----	-----
Total	8384565	10572986481	10581371046	6671266	6674747942	6681419208

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFIT

Amount in `

	Pension	Gratuity	Leave Encashment	Total	Previous year
Opening Balance as on 01.04.19	19335915063	1371782081	1211502217	21919199361	19948328774
Addition : Capitalized value of Contributions Received from other Organizations	6763889	4915391	575607	12254887	15636224
Total (a)	19342678952	1376697472	1212077824	21931454248	19963964998
Less: Actual Payment during the Year (b)	1993236403	168329203	75841485	2237407091	1380037492
Balance Available on 31.03.20 c (a-b)	17349442549	1208368269	1136236339	19694047157	18583927506
Provision required on 31.03.20 as per Actuarial Valuation (d)	23644829981	1448548177	1463038346	26556416504	21919199361
A. Provision to be made in the Current year (d-c)	6295387432	240179908	326802007	6862369347	3335271855
B. Contribution to New Pension Scheme	-----	-----	-----	96841184	70690760
C. Medical Reimbursement to Retired Employees	-----	-----	-----	-----	-----
D. Travel to Hometown on Retirement	-----	-----	-----	-----	-----
E. Deposit Linked Insurance Payment	-----	-----	-----	300000	557332
TOTAL (A+B+C+D+E)	6295387432	240179908	326802007	6959510531	3406519947

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

Amount in `

SCHEDULE 16 - ACADEMIC EXPENSES	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Laboratory Expenses	1113046	13941741	15054787	3844130	17883545	21727675
b) Field work/Participation in Conferences	-----	-----	-----	471501	-----	471501
c) Expenses on Seminars/Workshops	3377706	2954306	6332012	5220817	4661335	9882152
d) Award and Scholarships	615790	75259371	75875161	775503	78787818	79563321
e) Registration charges of institution of Eminence	-----	-----	-----	-----	-----	-----
d) Payment to visiting faculty	18518	-----	18518	807516	-----	807516
e) Examination	-----	260798753	260798753	4525	427707947	427712472
f) Refund of Fees	-----	2050478	2050478	-----	3394239	3394239
g) Entrance Exam	-----	66874041	66874041	-----	17868042	17868042
f) Student Welfare Expenses	-----	-----	-----	-----	-----	-----
g) Admission Expenses	-----	-----	-----	-----	-----	-----
h) Convocation Expenses	-----	-----	-----	-----	-----	-----
i) Publications	-----	304000	304000	46668	414966	461634
j) Stipend/means-cum-merit scholarship	-----	197022	197022	-----	229731	229731
k) Subscription Expenses	-----	-----	0	-----	-----	-----
l) Others (specify)	-----	-----	0	-----	-----	-----
TOTAL	5125060	422379712	427504772	11170660	550947623	562118283

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

Amount in `

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A Infrastructure						
a) Electricity and Power	----	287293600	287293600	----	278513967	278513967
b) Water charges	----	5911971	5911971	----	39352754	39352754
c) Insurance	----	----	0	----	----	0
d) Rent, Rates and Taxes (including property tax)	----	46989161	46989161	----	49119817	49119817
B) Communication	----	----		----	----	
e) Postage and Telephone	41218	5381747	5422965	27	5563631	5563658
f) Telephone, Fax and Internet Charges	----	----	0	----	----	0
g) Connectivity Expenses	----	38010229	38010229	29500	78108511	78138011
C) Others	----	----		----	----	
h) Printing and Stationery (consumption)	306886	15852215	16159101	873651	41603929	42477580
i) Travelling and Conveyance Expenses	79071	10079020	10158091	2163807	8298998	10462805
j) Hospitality	158004	----	158004	337381	----	337381
k) Auditors Remuneration	----	----	0	----	----	0
l) Legal & Professional Charges	----	15379060	15379060	----	9104699	9104699
m) Advertisement and Publicity	----	30956	30956	----	127140	127140
n) Magazines & Journals	----	50734963	50734963	57000	55657707	55714707
o) Watch & Ward Expenses	----	130791128	130791128	----	89426950	89426950
p) House Keeping Expenses	----	93285126	93285126	----	107227171	107227171
q) Games & Sports	----	2223488	2223488	----	8225305	8225305
r) Medical Expenses	----	51648907	51648907	----	96926926	96926926
s) Others/Contingency	296809	28012050	28308859	1395440	36734434	38129874
TOTAL	881988	781623621	782505609	4856806	903991939	908848745

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

Amount in `

SCHEDULE - 18 TRANSPORTATION EXPENSES	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Vehicles (owned by institution)	----	----	-	----	----	-
a) Running expenses	----	,----	-	----	----	-
b) Repairs & maintenance	----	----	-	----	----	-
c) Insurance expenses	----	----	-	----	----	-
2 Vehicles taken on rent/lease	----	----	-	----	----	-
a) Rent/lease expenses	----	----	-	----	----	-
3 Vehicle (Taxi) hiring expenses	-	----	-	10080	----	10080
Total	-	-	-	10080	0	10080

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

Amount in `

SCHEDULE - 19 REPAIRS & MAINTENANCE	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Buildings	-----	156203504	156203504	-----	166799115	166799115
b) Furniture & Fixtures	7670	4122414	4130084	-----	8836462	8836462
c) Plant & Machinery	-----	11734864	11734864	-----	1072562	1072562
d) Office Equipment	87920	1854362	1942282	2016712	4586700	6603412
e) Computers	192940	2578509	2771449	330288	5239421	5569709
f) Laboratory & Scientific equipment	-----	326698	326698	-----	1206911	1206911
g) Audio Visual equipment	-----		0	-----	-----	0
h) Cleaning Material & services	-----	-----	0	-----	-----	0
i) Book binding charges	-----	-----	0	-----	-----	0
j) Gardening	-----	1548861	1548861	-----	8794016	8794016
k) Estate Maintenance	-----		0	-----		0
l) Vehicles	-----	1244976	1244976	-----	864025	864025
m) Others (Specify)	-----	-----	0	-----	-----	0
Total	288530	179614188	179902718	2347000	197399212	199746212

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020.

Amount in `

SCHEDULE - 20 FINANCE COSTS		Current Year			Previous Year		
		Plan	Non Plan	Total	Plan	Non Plan	Total
a)	Bank charges	29501	177919	207420	54299	101790	156089
b)	Others (specify)	-----	-----	-----	-----	-----	-----
Total		29501	177919	207420	54299	101790	156089

Note:- If the amount is not material, the head Bank charges could be omitted and these could be accounted as Administrative expenses in Schedule 17.

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

Amount in `

SCHEDULE - 21 Expenditure on Grants, Subsidies etc.	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Provision for Bad and Doubtful Debts/Advances	-----	-----	-----	-----	-----	-----
b) Irrecoverable Balances Written- off	-----	-----	-----	-----	-----	-----
c) Grants/Subsidies to other institutions/organizations	1860125	141024915	142885040	2397793	143583013	145980806
d) Others (specify)	-----	-----	-----	-----	-----	-----
Total	1860125	141024915	142885040	2397793	143583013	145980806

Note:-

Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss on sale of investments, and loss on sale of fixed assets etc. and disclosed accordingly.

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

SCHEDULE 22: PRIOR PERIOD EXPENSES

Amount in `

Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses		-	-	----	----	----
2 Academic expenses	----	----	-	----	----	----
3 Administrative expenses	123832	559398	683230	----	----	----
4 Transportation expenses	----	----	-	----	----	----
5 Repairs & Maintenance	----	----	----	----	----	----
6 Other expenses	----	----	----	----	----	----
7. Depreciation related to prior period	----	----	----	0	1298098067	1298098067
Total	123832	559398	683230	0	1298098067	1298098067

UNIVERSITY OF DELHI
SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2020

	Amount in `	
Increase/Decrease in Stock	Current year	Previous year
a.) Closing Stock		
Stationery	5957925	7236511
Drugs and Medicines	8657151	10235191
Liveries	-----	-----
Answer Sheet	1354312	5127131
Total (A)	15969388	22598833
b.) Less :Opening Stock	22598833	25893998
Total (B)	22598833	25893998
Net Increase/(Decrease) (A-B)	(6629445)	(3295165)

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31ST MARCH 2020

Schedule 23: Significant Accounting Policies

1 Basis for Preparation of accounts:

- a. The financial statements are prepared on the basis of historical cost convention and generally on the accrual method of accounting unless otherwise stated.

2 Revenue Recognition:

- a. Fee from students, Sale of admission forms, tuition fees for each semester and Interest on Savings Bank accounts are accounted for on cash basis.
- b. Income from Land, Buildings and other Property and Interest on investments are accounted for on accrual basis.
- c. Interest on interest bearing advances to staff for House Building, Purchase of Vehicles and Computers are accounted for accrual basis every year, though the actual recovery of interest starts after the full repayment of the principal.

3 Fixed Assets and Depreciation:

- a. Fixed assets are stated at cost of acquisition including inward freight, duties, taxes, incidental direct expenses related to acquisition, installation and commissioning less depreciation. Fixed assets received by the University without any consideration has been capitalized in the financial statement at a nominal value i.e., at Rs. One per asset.
 - 3.1 Gifted / donated assets are valued at a nominal value at Rs.1/- (One) per asset.
 - 3.2 Books received as gift are valued at a nominal value i.e. at Rs.1/- (One) per asset.
 - 3.3 Fixed assets are valued at cost less accumulated depreciation. Depreciation on fixed assets is provided on written down value method as specified in the Guidance Note issued by the Institute of Chartered Accountants of India, at the following rates:

Tangible Assets:

S. No.	Type of Assets	Rate
1	Land	0%
2	Building	5%
3	Furniture & Fixture	25%
4	Scientific Equipment	40%
5	Computer including Printers, UPS etc.	40%

6	Library Books	50%
7	Buses, Vans etc.	30%
8	Cars, Scooters	25%
9	Plant & Machinery including Air-conditioners, Generators, Fire Extinguishers, Telephone, Television sets, Photo copiers, Fax Machines, Water Coolers, Projectors etc.	20%
10	Musical Instruments	50%
11	Sports Equipment	50%

Intangible Assets (amortization):

1	Computer Software	40%
2	Patents	25%

3.4 In respect of additions to fixed assets during the year, depreciation is provided for full year. In respect of sale/deductions from the fixed assets, no depreciation is charged.

3.5 Assets created out of Earmarked Funds where the ownership of such assets vest in the university, are set-up by credit to Capital Fund and merged with the Fixed Assets of the University. Depreciation is charged at the rates applicable to respective assets. Assets purchased out of Project funded by outside agencies remain the property of the concerned funding agency till the project is closed. After closure of the project, the project assets are merged with the Fixed Assets of the University at written down value by debiting respective Fixed Assets account and crediting Capital Fund Account.

3.6 Assets, the individual value of each of which is Rs 5000/- or less (except Library books) are treated as revenue expenditure. However physical accounting and controls are continued by the holders of such assets.

4 Intangible Assets:

Patents, copy rights and computer software are grouped under intangible Assets.

4.1 **Patents:** The expenditure incurred from time to time (application fees, legal expenses etc.) for obtaining Patent is capitalized and shown as part of Intangible assets in the Balance Sheet. If applications for Patents are rejected, the cumulative expenditure incurred on the particular Patent is written off to the Income & Expenditure in the year of application is rejected. The rate of depreciation is provided @ 25% on written down value method.

4.2 **Electronic Journals:** The amount spent on E- Journals/ periodicals are treated as revenue expenditure to the extent of the benefits utilized in the current year and rest of the amount is accounted in books of account on accrual basis as prepaid expenses.

4.3 Expenditure on acquisition of software has been separated from computer and peripherals and depreciation is provided @ 40% on written down value method w.e.f. **1st April, 2014.**

5 Stocks:

The stock at the end of the year has been valued at cost.

6 Retirement Benefits:

Retirement Benefits i.e., pension, gratuity and leave encashment are provided on the basis of actuarial valuation as per Accounting Standard -15. Capitalized value of Pension, gratuity and earned leave received from previous employers of Universities employees, who have been absorbed in the university is credited to the respective provision Accounts. Pension and leave salary contribution received in respect of employees on deputation is also credited to the respective provision accounts.

7 Investments:

All Investments are stated at cost.

8 Earmarked/ Endowment Funds:

The Earmarked Fund consisting of Housing Building Fund, Conveyance Fund (including computer advances and other such funds) are long term funds and earmarked for specific purposes. Each of the Funds has a separate bank account. Those with large balances also have investment in government securities, bonds and term deposit with Banks. The income from investment/ advances (house building, conveyance and computer) is accounted on accrued basis and interest on savings bank accounts are credited to the respective fund on cash basis. The expenditure and advances (in the case of housing building conveyance/computers) are debited to the respective funds.

8.1 The balance of respective funds is carried forward on the liability side of the Balance Sheet and is represented by bank balance, advances, Fixed Deposit and investment on the asset side of the Balance Sheet.

8.2 Assets purchased/created out of Earmarked Funds where the ownership of the assets vests in the University, are merged with the fixed assets of the University by debiting respective fixed asset account and crediting Capital Fund account. Depreciation is charged at the rates applicable to the respective assets.

8.3 **Endowment Funds:** Endowment Funds are received from various individual donors, Trust and other Organization, for establishing Chairs and for Medals, Prizes and scholarships, as specified by the donors.

The Income from investment of each Endowment Fund is added to the Fund. The expenditure on Medals & Prizes is met from the interest earned on investment of the respective Endowment Funds and the balance is carried forward to next year. In respect of chairs, however, the Corpus of Endowment is also used.

The balances are represented by Investment in RBI Bonds and Fixed Deposits and balance in Savings Bank Account common for all Endowments, and Accrued Interest on Investments.

9 Government and UGC Grants:

- 9.1 Government Grant and UGC grants are accounted for on receipt basis. However, where a sanction for release of grant pertaining to financial year received before 31st March and the grant is actually received in the next financial year, the grant is accounted on accrual basis and an equal amount shown as recoverable from grantor.
- 9.2 To the extent utilized towards capital expenditure (on accrual basis), grant from UGC are transferred to the capital fund.
- 9.3 UGC grant to the extent utilized for meeting Revenue Expenditure (on accrual basis) are treated as income of the year in which they are realized.
- 9.4 Unutilized Grant (including advances paid out of such grants) are carried forward and exhibited as a liability in the Balance Sheet

10 Investments of Earmarked Fund and Interest Income Accrued on such Investments:

To the extent not immediately required for expenditure the amounts available against such funds are invested in approved Securities and Bonds or deposited for fixed term with Banks, leaving the balance in Savings Bank Account.

Interest received, interest accrued and due and interest accrued but not due on such investment are added to the respective funds and not treated as income of the Institution.

11 Sponsored Projects:

- 11.1 In respect of ongoing sponsored projects the amount received from sponsors are credited to the head Current liabilities and Provisions- Current Liabilities – Other Liabilities – receipt against ongoing sponsored projects. As and when expenditure incurred/ advances are paid against such project, or the concerned project account is debited with allocated overhead charges, the liability account is debited.
- 11.2 In addition to funds for fellowship released by the UGC, fellowship and scholarship are also sponsored by various organizations. These are accounted in the same way as Sponsored Project except that the expenditure generally is only on distribution of fellowship and Scholarship which may include allowances for contingent expenditure by fellow and scholars.
- 11.3 The Institutions itself also awards fellowships and Scholarships, which are accounted on Academic expenses.
- 11.4 Assets purchased out of Project funded by outside agencies remain the property of the concerned funding agency till the project is closed. After closure of the project, the project assets are merged with the Fixed Assets of the University at written down value by debiting respective Fixed Assets account and crediting Capital Fund Account.

12 Income Tax:

The Income of the institution is exempt from Income Tax under section 10(23) (C) of the Income Tax Act. No provision for tax is therefore made in the accounts.

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 2020

Schedule 24: Contingent Liabilities and Notes on Accounts

1 Contingent Liabilities:

- (a) Various claims filed by present/former employees of the University are pending before Industrial Tribunals and the Hon'ble High Court of Delhi. The quantum of claim is not ascertainable.
- (b) An Amount of Rs 14.25 Crore is payable to ECIL as balance payment for supplying and commissioning of security equipment related to various venues of DU areas during Commonwealth Games 2010 (against bill amount of Rs 28.23 Crore). The balance payment was stopped by the Ministry of Home Affairs as the matter is sub-Juiced in the Hon'ble Court.

2 Capital Commitments (Capital Works in Progress)

Capital Works in Progress includes the amount paid by University till 31st March 2020 towards construction of the following Projects

- I. Other Projects from Plan & Earmarked/ Endowment Fund Rs. 12,28,72,429/-

During the year, No any Capital Work in Progress has been transferred into Building Accounts.

3 Fixed Assets:

3.1 Addition in the year to Fixed Assets in Schedule 4 include assets purchased out of plan funds Rs. 1962696/- Non Plan, Funds (Recurring) Rs. 7,28,95,450 /-, (Capital Assets) Rs. 8,38,92,717/- and Earmarked/Endowment Fund Rs. 6,69,68,796/- Sponsored Projects closed Rs. 8529436/- and Library Books and other assets of the value of Rs 60/- (at nominal value of Rs. 1/- per assets) gifted to the University. The assets have been set up by credit to Capital Fund.

3.2 In the Balance sheet as on 31st March, 2014 and the Balance Sheets of earlier years Fixed Assets created out of Plan Fund and Fixed Assets created out of non-plan funds were not exhibited distinctly. Further the addition during the year from plan, non-plan funds, and other funds, and the depreciation on those additions respectively has been exhibited distinctly in sub schedule A B (1) B (2) &D to the main schedule of the Fixed Assets (Schedule 4)

3.3 Fixed Assets set out in Schedule 4 do not include Assets purchased out of funds of sponsored Project, held & used by the university, as Project contracts includes stipulations that all such Assets purchased out of Project funds will remain the property of Sponsors till the project is closed.

4 Deposit Liabilities:

There is no amount of earnest money deposit & security deposit which has been transferred to Revenue Account

5 Expenditure in Foreign currency:

Transaction denominated in Foreign Currency are accounted for at the exchange rate prevailing at the date of payment/realization.

6 Current Assets, Loans &Advances and Deposits:

7.1 In the opinion of the management, the Current Assets, Loans and Advances have a value on realization in the ordinary course, equal at least to the aggregate amounts shown in the Balance Sheet.

7.2 The Loans & Advances shown in the asset side of the Balance Sheet does not include, advances pertaining to period up to 31st March 2006, are still outstanding for final statement. These advances were charged to the respective head of account at the time of release of advance.

7 Bank Balances:

The details of balances in Savings Bank Accounts, Currents Accounts & Fixed Deposit Accounts with Banks are enclosed as attachment "A" to the schedule of current assets.

- All Savings Bank Accounts with auto sweep facility (Flexi Deposit) generate interest at the rate applicable to the Fixed Deposit for the duration for which the funds are kept in the "Flexi Deposit Account". The interest income in such savings bank accounts is accounted for on accrual basis.

8 Previous year figures have been regrouped/rearranged where ever necessary.

9 Figures in the final accounts have been rounded off to the nearest rupee.

10 Schedule 1 to 24 are annexed to & form an integral part of the Balance Sheet as on 31st March 2020 and the Income & Expenditure Account for the year ended 31st March 2020

11 Provident Fund Accounts:

As the Provident Fund Accounts including New Pension Scheme Fund are owned by the members of those funds and not by the University, these accounts were separated from the University Accounts. However, a Receipts & Payments Accounts, an Income & Expenditure Account (on Accrual basis) and a Balance Sheet of the Provident Fund Accounts as well as the New Pension Scheme for the year 2019-20 have been attached, to the University's Accounts.

12 Salaries:

The expenditure on salary is for the period from March 2019 to February 2020. No provision is made towards salary for the month of March 2020.

13 Halls & Hostel:

As Hall & Hostels are separate reporting entities, their accounts are prepared separately from the University Accounts. However, a consolidated Receipts & Payments Account, consolidated Income & Expenditure Account and a consolidated Balance Sheet of all the Halls & Hostels and Guest Houses have been attached to the University's Account.

14 Delhi University Press:

As University Press is a separate reporting entity, its accounts are prepared separately and attached to the University's Account.

UNIVERSITY OF DELHI
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2020

Amount in `

RECEIPTS		Current Year	Previous Year	PAYMENTS		Current Year	Previous Year
I. Opening Balances				I. Expenses			
a) Cash Balances		----	----	a) Establishment Expenses		5938531520	4710548621
b) Bank Balances				b) Academic Expenses		427504772	561954538
i. In Current Accounts		102222076	66031191	c) Administrative Expenses		698780995	894045727
ii. In Saving Accounts		1221087686	891760948	d) Transportation Expenses		----	10080
iii. In Deposit Accounts		12388074281	11082529870	e) Repairs & Maintenance		179902718	180040236
c) Permanent Advance		937600	922600	f) Finance costs		207420	156089
II. Grants Received				g) Expenditure on Grant		142885040	145980806
a) From Government of India		----	----	h) Prior Period Items		683230	----
b) From State Government		----	----	II. Payments against Earmarked/ Endowment Funds		297752224	388749530
c) From UGC				III. Payments against Sponsored Projects/Schemes		602321702	630046448
i) Grant for Capital Expenditure-Non Plan	110000000		----	IV. Payments against Sponsored /fellowship Fellowships/Scholarships		43711631	95398221
ii) Grant for Revenue Expenditure-Non Plan	5738824000	5848824000	5633900000	V. Payments against Plan Accounts		----	----
d) From other sources (details)				VI. Investments and Deposits made			
III. Academic Receipts				a) Out of Earmarked/Endowment Funds		----	----
a) Fees and Subscriptions		1042233559	920684892	b) Out of own funds (Investments - Others)		----	----
b) Sale of Publications		107760	33690	VII. Term Deposits with Scheduled Banks		----	----
IV. Receipts against Earmarked/Endowment Funds		1065630662	832598434	VIII. Expenditure on Fixed Assets and Capital Work - In - Progress		----	----
V. Receipts against Sponsored Projects/Schemes		559243795	687285490	a) Fixed Assets		225719659	176812980
VI. Receipts against Plan		262936632	35944405	b) Capital Works - In - Progress		----	----
VII. Receipts against Sponsored Fellowships and Scholarships		58387487	80304722	IX. Other Payments including statutory payments			
				Other body transaction		34489554	121871867

VIII. Income on Investments From			X. Refunds of Grants	----	----
a) Earmarked/Endowment Funds	267346159	431669302	XI. Deposits and Advances		
b) Plan Accounts	250812594	203020846	a) Festival Advance		70762
c) Sponsored Projects	78058027	90951125	b) Advances	----	----
d) Sponsored Fellowship & Scholarship	6392606	5691539	c) Permanent Advance	----	----
IX. Interest received on			d) Medical Advance	----	----
a) Bank Deposits	28067078	51143555	e) LTC Advance	8476132	7974556
b) Loans and Advances	----	----	f) Remittances	0	1961357
c) Savings Bank Accounts	15030915	57188754	g) Advance out of Sponsored Projects, Plan, & Earmarked Fund	47805560	----
X. Investments encashed	----	----	XII. Other Payments	1976473267	2088801180
XI. Term Deposits with Scheduled Banks encashed	----	----	XIII. Closing Balances		
XII. Other Income (including Prior Period Items)	103809933	76037082	a) Cash in hand	----	----
XIII. Deposits and Advances			b) Bank Balances		
a) Festival Advance	----	736612	- In Current Accounts	131513570	102222076
b) LTC Advance	7974556	13308426	- In Savings Accounts	3126403359	1221087686
c) Medical Advance	----	----	- In Deposits Accounts	11698773012	12388074281
d) Permanent Advance	----	----	c) Permanent Advance	927600	937600
e) Advances	16944774	95453566			
f) Remittances	449219	----			
g) Advance out of Sponsored Projects, Plan, & Earmarked Fund	----	290782766			
XIV. Miscellaneous Receipts including Statutory Receipts	59934047	120094100			
XV. Any Other Receipts	2198357518	2048670726			
TOTAL	25582862965	23716744641	TOTAL	25582862965	23716744641

UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT
BALANCE SHEET AS ON 31st MARCH 2020

Previous Year 31.03.2019	Liabilities	Current Year 31.03.2020	Previous Year 31.03.2019	Assets	Current year 31.03.2020
	<u>GPF</u>	-			
3718050214	Opening Balance	3991034326	2626990000	Investment (Bonds)	
555083796	Add: Subscriptions in the year	606268822		--- GPF	1343000000
287912546	Add: Interest Credited	310446144		--- CPF	1283990000
(570011685)	Less: Advance/Withdrawal	(658625859)			
(545)	Less: Adjustment relating to Previous yr.	(55774)	2161994717	Deposits Accounts (FD)	
3991034326	Closing Balance		4249067659	--- GPF	1462200000
				--- CPF	852900000
	<u>CPF</u>			Interest Accrued as on 31.03.2020	
614883516	Opening Balance	616249658	139183795		2315100000
58210366	Add: Subscriptions & Contribution repayment of advance in the year	69794420		TDS Deducted:	
40615088	Add: Interest Credited	41185113		--- CPF	2131613
(96122478)	Less: Advance/Withdrawal/Final Settlement	(99305406)		--- GPF	83363
(1336834)	Less: Adjustment related to Previous Year	(462)			
616249658	Closing Balance		627923323	Bank balances with SBI Bank in Saving Accounts:-	
				GPF A/c No. 10851298435	115492712
	<u>Interest Reserve</u>			CPF A/c No. 10851298457	136713717
368319050	Opening Balance	430847617	88359659		
62528567	Add: Excess of Income over Expenditure	26690867	21603430		252206429
430847617	Closing Balance		457538484		
5038131601			5334529466		5334529466

UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2020

					(Amount/Rs.)
Previous Year 31/03/19	Expenditure	Current Year 31/03/2020	Previous Year 31/03/2019	Income	Current Year 31/03/2020
	-				
	Interest Credited to:		408178329	Interest earned on investment & SB A/c	379209251
287912546	GPF Account	310446144	106280869	Add: Interest accrued during the year	105115135
40615088	CPF Account	41185113	1337379	Add: Adjustment related to previous year	56236
4035	Bank charge	2079	(122884777)	Less: Interest accrued during previous year but realized during current year.	(106280869)
	TDS Deducted:			Other Income	224450
426958	---- CPF	0			
1424606	---- GPF	0			
62528567	Excess of Income over Expenditure	26690867			
392911800	Total	378324203	392911800	Total	378324203

UNIVERSITY OF DELHI
PROVIDENT FUND ACCOUNT
RECIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2019-20

Receipts	(Amount/Rs.)	Payments	(Amount/Rs.)
Opening Balance as on 01/04/19			
GPF A/c No. 10851298435	88359659	GPF Adv./Withdrawal/Final Settlement	658625859
CPF A/c No. 10851298457	21603430	CPF Adv./Withdrawal/Final Settlement	99305406
GPF Subscription	606268822	Investment during the year	2393000000
CPF Subscription & University Contribution	69794420	Bank Charges	2079
Investment Encashed	2240119167		0
Interest Received	376994275	Closing Balances:	
		GPF A/c No. 10851298435	115492712
		CPF A/c No. 10851298457	136713717
TOTAL	3403139773	TOTAL	3403139773

UNIVERSITY OF DELHI
NPS TIER-I ACCOUNT
BALANCE SHEET AS AT 31st MARCH 2020

(Amount / Rs.)

Amount 31.03.19	Liabilities	Amount 31.03.20	Amount 31.03.19	Assets	Amount 31.03.20
	<u>NPS Tier-I Account :-</u>				
4455629	Subscription & Univ. Contribution	14230965	3115000	Investment	2606000
			77867	Interest accrued but not realized	71338
				TDS deducted on Flexi FD & FD	2045
3091945	Interest Reserve	3748552	4354707	Balance at Bank Saving A/cs	15300134
					-
7547574	TOTAL	17979517	7547574	TOTAL	17979517

UNIVERSITY OF DELHI
NPS TIER-I ACCOUNT
INCOME & EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR 2019-20

(Amount / Rs.)

Amount 31.03.19	Expenditure	Amount 31.03.20	Amount 31.03.19	Income	Amount 31.03.20
856	Bank Charges	3676	394772	Interest received on investment (F.D., Flexi A/c & SBI)	666812
8270	TDS deducted on Investment (Flexi FD Interest)	0			
406105	Excess of Income over Expenditure	656607	(57408)	Interest accrued for the year 2018-19 but realized during 2019-20	(77867)
			77867	Interest accrued but not realized	71338
415231	TOTAL	660283	415231	TOTAL	660283

UNIVERSITY OF DELHI
NPS TIER-I ACCOUNT
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2019-20

(Amount / Rs.)

Amount 31.03.19	Receipts	Amount 31.03.20	Amount 31.03.19	Payments	Amount 31.03.20
421217	Opening Balance as on 01/04/2019 NPS Tier-I Account				
		4354707	3115000	Investment	2606000
137375588	Own Subscription & University Contribution	180686486	133514128	Withdrawal/Refund to NSDL	168277292
67996	Excess Receipts (Remittance)	0			
			856	Bank Charges	3676
281526	Interest Received on investment (NPS) (FD & Flexi FD)	262287			
			8270	TDS deducted on Investment	0
113246	Interest on Saving Bank A/c	402480	73612	Pr. Excess Remm paid	67996
				Adjustment (Previous Year)	2565862
2807000	Investment Encashed (F.D.)	3115000	4354707	Closing balance as on 31.03.20	15300134
141066573	TOTAL	188820960	141066573	TOTAL	188820960

UNIVERSITY PRESS
BALANCE SHEET AS AT 31ST MARCH 2020

FUNDS & LIABILITES		CURRENT YEAR	PREVIOUS YEAR
		Rupees	Rupees
1	<u>Capital</u>	341547	3381931
2	<u>Current Liabilities:</u>		
(a)	Deduction from Salary Bills	1243219	1241869
(b)	Bills Payable	----	----
3	<u>Loan & Advance:</u>		
(a)	Advance for work to be done	0	130000
(b)	Inter Bank Transfer	17395492	17395492
(c)	Other Liabilities	10162	10162
(d)	Earnest Money	53500	53500
		19043920	22212954
1	Machinery, Furniture & Equipments	5148	161588
2	Amount Receivable	15490171	20528126
3	<u>Stock in Hand</u>		
(a)	Raw Material	562870	1289027
(b)	Finished Goods	----	----
4	Work in Progress	----	----
5	Cash in Bank	2969731	218213
6	Permanent Assets	1000	1000
7	Advance Contingency	15000	15000
		19043920	22212954

UNIVERSITY PRESS
PROFIT & LOSS ACCOUNT FOR THE YEAR 2019-2020

Amount in `

Particulars	Current Year	Previous Year	Particulars	Current Year	Previous Year
1. <u>To Opening Stock :</u>			1. <u>Income :</u>		
(a) Raw Materials	12,89,027.00	13,83,462.00	(a) Income from Printing and Binding	-	98,96,508.00
(b) Finished Goods	-	45,978.00			
2. <u>To Work in Progress</u>	-	48,17,430.00			
3. <u>To Pay and Allowances :</u>	9,58,138.00	31,89,321.00	2. <u>By Closing Stock :</u>		
(a) L.T.C.	-	51,872.00	(a) Raw Materials	5,62,870.00	12,89,027.00
(b) Tuition Fees	-	13,500.00	(b) Finished Goods	-	-
(c) Bonus	-				
(d) Medical Re-imburement	-	3,15,358.00			
4. <u>To Purchase of Raw Materials</u>	-	6,42,746.00	3. <u>By Work in Progress</u>	-	-
5. <u>To Misc.Contingent Exp.</u>	-	4,836.00			
6. <u>To Rate, Rent and Taxes</u>	649.00	1,369.00	4. Loss	16,86,676.00	53,24,229.00
7. <u>To Work Done Through Outside Agency</u>	-	60,01,503.00			
8. <u>Depreciation :</u>					
(a) Machinery, Furniture & Equipment	1,732.00	42,389.00			
9. <u>Profit</u>	-	-			
TOTAL	22,49,546.00	1,65,09,764.00	TOTAL	22,49,546.00	1,65,09,764.00

UNIVERSITY OF DELHI
 DELHI UNIVERSITY PRESS A/C NO. 10851295354
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST MARCH, 2020

Amount in `

Receipts	Current Year	Previous Year	Payments	Current Year	Previous Year
I <u>Opening Balance</u>			I <u>Expenses</u>		
Bank Balance	218213	1537189	Establishment Expenses	958138	3570051
Deposit in Bank	----	----			
II <u>Receipts from Printing & Binding work</u>	3708955	11801768	II <u>Other Administrative Expenses</u>		
			Expenditure	649	9592588
III <u>Deductions\Recoveries</u>	211421	1206346			
			Festival Advance	----	----
Festival Advance	----	----			
			Remittance	210071	1164451
Earnest Money	----	----			
			III <u>Closing Balance</u>		
			Bank Balance	2969731	218213
Total	4138589	14545303		4138589	14545303

UNIVERSITY OF DELHI
HALLS AND HOSTELS
BALANCE SHEET AS AT 31st MARCH, 2020

SOURCE OF FUNDS	Amount in `	
	Current Year	Previous Year
COURPUS/CAPITAL FUND	363265158	316409334
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	54961581	48810145
CURRENT LIABILITIES & PROVISIONS	21603087	19274316
TOTAL	439829826	384493795
APPLICATION OF FUNDS		
Fixed Assets		
Tangible Assets	16389854	18092779
Intangible Assets	24292	9740
Capital Works-In-Progress	0	0
INVESTMENT FROM EARMARKED/ENDOWMENT FUNDS		
Long Term	0	0
Short Term	12361659	12753269
INVESTMENTS- OTHERS	89068821	74581662
CURRENT ASSETS	306483853	267281021
LOANS, ADVANCES & DEPOSITS	15555572	11829548
MISCELLANEOUS EXPENDITURE	(54224)	(54224)
TOTAL	439829826	384493795

UNIVERSITY OF DELHI
HALLS AND HOSTELS
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2020

Particulars	Amount in `	
	Current Year	Previous Year
(A) INCOME		
Academic Receipts	63276944	58949398
Grants/Subsidies	137001868	141784977
Income From Investment	21183494	18956006
Interest Earned	1990898	1648722
Other Income	58893411	55933570
Prior Period Income	0	0
Total (A)	282346615	277272673
(B) EXPENDITURE		
Staff Payments & Benefits (Establishment Expenses)	159821329	158610939
Academic Expenses	5073	0
Administrative and General Expenses	63388740	67732899
Transportation Expenses	538525	531863
Repair & Maintenance	9048521	9213593
Finance Costs	134464	355650
Depreciation	4811096	5199543
Other Expenses	0	0
Prior Period Expenses	0	0
Total (B)	237747748	241644487
Excess of Income over Expenditure/ (Expenditure over Income) (A-B)	44598866	35628186
Balance being Surplus/(Deficit) carried to Capital Fund	44598867	35628186

UNIVERSITY OF DELHI
HALLS AND HOSTELS
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31st MARCH 2020

Amount in `

Receipt	Current Year	Previous Year	Payment	Current Year	Previous year
I. Opening Balance			I. Expenses		
- Cash in Hand	71275	163129	(a) Establishment Expenses	160183587	158161911
- Bank Balance	136690466	63404134	(b) Academic Expenses	5073	0
- Imprest	414581	336061	(c) Administrative Expenses	62155314	65676872
- Deposit Account	189832240	216175292	(d) Transportation Expenses	538525	545863
- TDS on FDR's Interest	27532		(e) Repairs & Maintenance Expenses	8930708	9071187
II. Other Bank Balances/FDRs	0	3797750	II. (a) Payments against Earmarked Fund	17770394	19262108
III. Grants Received	140122315	141931663	(b) Payment against Projects	45112	0
IV. Academic Receipts	46212426	53247743	III. Investments and Deposits made	14489023	8545263
V. Receipts against Earmarked/Endowment Funds	23570250	22406384	IV. Expenditure on Fixed Assets & Capital work-in-Progress	3010475	2869336
VI. Interest Received	9383691	3774672	V. Finance Charges	131677	85514
VII. Income from Investments	15530963	22173313	VI. Deposits and Advances	886730	6550019
VIII. Other Income	73782592	61165799	VII. Other Payments	6547635	7199895
IX. Deposits and Advances	2615514	1316120	VIII. Closing Balances		
X. Any Other Receipts	5898589	13830066	- Cash in Hand	69906	71275
			- Bank Balance	91139124	136690466
			- Imprest	194872	414581
			- Deposit Account	277995721	188550304
			- TDS on FDR's Interest	58557	27532
Total	644152433	603722126	Total	644152433	603722126