

**96<sup>th</sup> Annual Report**  
**2018-2019**  
**Part-I**



**UNIVERSITY OF DELHI**  
**DELHI**

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# UNIVERSITY OF DELHI

## 96<sup>th</sup> ANNUAL REPORT

### PREFACE

The University of Delhi is the premier university of the country with a legacy of almost a century. Since its establishment in 1922, the University has maintained the highest academic standards and pioneered some of the best practices in higher education in the country. In line with its motto, *Nishtha Dhriti Satyam*, the University continues to keep its commitment of nation building and uphold an unflinching adherence to universal human values. It is a matter of immense pride to present the 96<sup>th</sup> Annual Report of the University, covering the period from April 1, 2018 to March 31, 2019.

The University of Delhi has been ranked as first among the Top 25 Central Universities and holds the 8<sup>th</sup> Rank among top 100 Universities by Outlook-ICARE India University Rankings. It comes at the 7<sup>th</sup> position in the National Rank by Centre for World University Ranking. Among Top 100 Universities in India, the University of Delhi occupies the 13<sup>th</sup> position according to the National Institutional Ranking Framework. It is ranked 7<sup>th</sup> among Indian Educational Institutions and Universities by QS India Ranking. As per QS World University Rankings, the University is placed at rank 474. More importantly, the University has attained a commendable goal of 20<sup>th</sup> rank globally in Alumni Outcomes and 191-200 global rank in QS Graduate Employability Rankings.

The University of Delhi achieved a path breaking distinction in terms of being recognised as the Institution of Eminence (IoE) by the Ministry of Human Resource Development (MHRD), Government of India. This distinction has been achieved as a result of the continuing efforts and contribution of our students, researchers, teachers, administrative staff, alumni and all stakeholders.

The University of Delhi has gone through the process of assessment and accreditation in 2018, conducted by the National Assessment and Accreditation Council (NAAC), under the first cycle. This accreditation is as per the Revised Framework of NAAC, which was implemented in 2017, where the primary focus shifted from qualitative peer judgement only to data-based quantitative evaluation (70%) and peer judgement (30%). 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 the highest among all the Central Universities which have been assessed in the first cycle of the revised assessment framework during this period.


The University of Delhi is one of the five Central Universities to be graded as Category-I by the University Grants Commission (UGC) as per the provision of the UGC (Categorisation of Universities (only) for Grant of Graded Autonomy) Regulations, 2018.

The h-index of the University of Delhi touched 192, one of the highest among Indian universities. The University has over 360 ongoing research projects which amounted to around Rs 272 crores of grants from extramural sources during this period.

The University offers more than 500 programmes, which include undergraduate programmes, an array of postgraduate programmes (Masters, M.Phil. and Ph.D.), Certificate and Diploma courses. The University undertook an elaborate exercise of revamping and modernizing all its undergraduate and postgraduate curricula in the year 2018-19 and incorporated Learning Outcome-Based Curriculum Framework (LOCF). The courses under various programmes were revised under the Choice-Based Credit System (CBCS). The revised courses came into effect from the academic year 2019-20 and are available to the students enrolled both in regular and distance learning modes of the University. The revised undergraduate courses are equally applicable to the students enrolled in the School of Open Learning as well as in the Non-Collegiate Women Education Board.

The University is moving forward with digitalization and has migrated to the online system for various processes related to administration, library system and pedagogical practices. The University is also expanding collaborations with international institutions and has launched a special drive to expand the induction of foreign students, thereby reaching out to the community extensively and foregrounding its cultural ideal of *Vasudhaiva Kutumbakam*. It has also adopted five villages under the aegis of the Unnat Bharat Abhiyan initiative of the MHRD and continues to undertake need-based and participatory community development work in these communities.

As an emerging leader in global education and research, the University of Delhi is committed to contribute significantly to the intellectual growth of our nation by serving around seven lakh students on its rolls at a given time.

  
Yogesh K. Tyagi  
Vice Chancellor

## EDITORIAL COMMITTEE

The 96<sup>th</sup> Annual Report of the University of Delhi for the year ending 31<sup>st</sup> March, 2019 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. Pami Dua	Dean Academic Activities & Projects, Chairperson
2.	Prof. Tarun Kumar Das	Registrar, University of Delhi
3.	Dr. Payal Mago	Joint Dean Colleges
4.	Prof. Yogendra Singh	Dean Research, Life Sciences
5.	Prof. T. R. Seshadri	Dean Research (Physical & Mathematical Sciences)
6.	Prof. Suman Kundu	Dean, Faculty of Interdisciplinary & Applied Sciences
7.	Prof. Reetesh Kumar Singh	Dean, Faculty of Commerce
8.	Prof. Sunita Singh Sengupta	Dean, Faculty of Management Studies
9.	Prof. Neera Agnimitra	Head, Department of Social Work
10.	Prof. Arun Jagannath	Department of Botany
11.	Prof. Sanjay Kapoor	Department of Plant Molecular Biology
12.	Prof. Vandana Roy	Dean, Faculty of Medical Sciences
13.	Prof. Ajay Kumar	Department of Mathematics
14.	Prof. Nandita Babu	Department of Psychology
15.	Prof. Shormishtha Panja	Department of English
16.	Dr. K. Ratnabali	Faculty of Law
17.	Dr. Mukesh Mehlawat	Deputy Dean Research
18.	Dr. Asani Bhaduri	Deputy Dean Research
19.	Capt. Parminder Sehgal	Programme Coordinator, NSS & OIC, NCC
20.	Dr. Uma Chaudhry	Bhaskaracharya College of Applied Sciences
21.	Dr. Surinder Kaur	SGTB Khalsa College
22.	Dr. Renu Baweja	Shivaji College
23.	Dr. Sudhir Sharma	Joint Registrar (Council)

Co-opted members:

i)	Prof. Kavita Sharma	Department of Commerce
ii)	Prof. Mohan	Dean, Faculty of Arts
iii)	Dr. K. P. Singh	Department of Library and Information Science

The Report presents the highlights of activities and achievements of the University of Delhi during the year 2018-2019 (April 1, 2018 to March 31, 2019).



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## OFFICERS OF THE UNIVERSITY

### Chancellor

Hon'ble Muppavarapu Venkaiah Naidu

### Pro-Chancellor

Justice Dipak Mishra up to 02.09.2018

Justice Ranjan Gogoi w.e.f. 03.09.2018

### Vice-Chancellor

Prof. Yogesh Kumar Tyagi

### Pro-Vice-Chancellor

Prof. Jitendra Paul Khurana (Officiating)

### Dean of Colleges

Prof. Arun K. Pandey from 04.04.2018 to 30.06.2018

Prof. Jitendra Paul Khurana (Interim) w.e.f. 04.07.2018

### Director, South Delhi Campus

Prof. Jitendra Paul Khurana

### Director, Campus of Open Learning

Prof. Chandra Shekhar Dubey (Officiating)

### Treasurer

Mr. T. S. Kripanidhi

### Proctor

Prof. Neeta Sehgal (Officiating)

### Dean Students Welfare

Prof. Rajiv Gupta

### Registrar

Prof. Tarun Kumar Das

### DEANS OF FACULTY

#### Arts

Prof. Mohan

#### Science

Prof. Maharaj K. Pandit up to 07.11.2018

Prof. Inderjit Singh w.e.f. 08.11.2018

#### Social Sciences

Prof. Vijay Kumar Dixit up to 28.12.2018

Prof. Sudhir A. Shah w.e.f.13.03.2019

#### **Law**

Prof. (Ms.) Ved Kumari

#### **Management Studies**

Prof. Sunita Singh Sengupta

#### **Mathematical Sciences**

Prof. Prakash Chandra Jha

#### **Medical Sciences**

Prof. Rachna Gupta up to 25.07.2018

Prof. Vandana Roy w.e.f. 26.07.2018

#### **Music & Fine Arts**

Prof. Suneera Kasliwal up to 31.01.2019

Prof. Deepti Omchery Bhalla w.e.f. 01.02.2019

#### **Technology**

Prof. Sachin Maheshwari

#### **Ayurvedic and Unani**

Dr. Uma Shankar Sharma up to 01.09.2018

Dr. Vivek Bhushan w.e.f. 25.10.2018

#### **Education**

Prof. (Ms.) N. Ranganathan

#### **Inter-Disciplinary and Applied Sciences**

Prof. Pradeep Kumar Burma up to 07.09.2018

Prof. Akshay Kumar Pradhan up to 15.09.2018

Prof. Suman Kundu w.e.f. 16.09.2018

#### **Applied Social Sciences and Humanities**

Prof. Vijay Kumar Kaul

#### **Commerce & Business**

Prof. Kavita Sharma up to 12.03.2019

Prof. Ritesh Kumar Singh w.e.f. 13.03.2019

#### **Homeopathic Medicine**

Prof. Rachna Gupta up to 25.07.2018

Prof. Vandana Roy w.e.f. 26.07.2018

## **STUDENT ENROLLMENT**

As per the available data for 2018-19, the University enrolled on rolls, 1,93,380 undergraduates and 26,925 postgraduate students, including M.Phil./Ph.D. students and 7,046 in Certificate/Diploma/PG Diploma courses. The total number of students enrolled in conventional mode is 2,27,351. Additionally, as many as 3,89,132 students are enrolled in the distance mode and 30,684 non-collegiate women students also form part of this premier University. The total enrollment across conventional and distance mode in all programmes was 6,47,167 in 2018-19. At present, more than half of the students come from states other than 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, 20 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 mode, 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 and signposts established by the University during the past one year of reporting. Brief overviews of noteworthy achievements of the year 2018-2019 (April 1, 2018 – March 31, 2019) are presented here.

## **FOUNDATION DAY**

The University of Delhi celebrated its 96th Foundation Day on May 1, 2018 in the Convention Hall, Viceregal Lodge. The distinguished guests, who are also alumni of the University, included Dr. P. K. Mishra, Additional Principal Secretary to the Hon'ble Prime Minister; Shri Mukul Rohatgi, Former Attorney General for India and Shri Alok Kumar Verma, IPS, Director, Central Bureau of Investigation. On this special day, the University's distinctive purple flag was raised by the Vice Chancellor along with the distinguished guests followed by planting of tree saplings by each of them. The distinguished guests addressed the audience, followed by an award ceremony felicitating retired and in-service teachers.

As in earlier years, awards were conferred upon highly deserving individuals who have rendered exemplary service to the University in the past and present. These awards were under the category of 'Distinguished Service Awards' to retired teachers and non-teaching staff and 'Excellence Awards' for teachers-in-service in University Departments and Colleges.

## **CONVOCATION**

The University organized its 95<sup>th</sup> Annual Convocation on November 19, 2018. The University was privileged to welcome Hon'ble Shri Ram Nath Kovind, President of India as Chief Guest. The Hon'ble Minister of State, Human Resource and Development, Government of India, Dr. Satya Pal Singh was the Guest of Honour. The event was presided over by the Vice Chancellor Prof. Yogesh K. Tyagi.

Degrees were conferred upon 607 Ph.D. candidates and 22 M.Ch. and 17 D.M. candidates. 161 medals and 34 prizes were awarded to meritorious students. A live webcast of the Convocation was available on the University website.

## **RANKINGS OF THE UNIVERSITY**

The University of Delhi was ranked No. 1 by Outlook-ICARE India University Ranking 2019: Top 25 Central Universities. It is also commendable that it is ranked 10<sup>th</sup> in Times Higher Education India Ranking among 56 contenders. Based on ranking by national agencies, the University is ranked 13<sup>th</sup> by National Institutional Ranking Framework (NIRF).

### National Ranking

Ranking	2019
National Institutional Ranking Framework (NIRF) for Universities	13 (2019)
Centre for World University Ranking (CWUR): National Rank	7 (2019-20)

### International Ranking

Overall Ranking	2019/20
Times Higher Education (THE) World University Ranking	601-800 (2020)
THE India Rank	10 (2020)
THE Asia University Ranking	156 (2019)
THE Emerging Economics University Ranking	130 (2019)
Centre for World University Ranking	608 (2019-20)
QS India Ranking	7 <sup>th</sup> position among Indian educational institutions and universities (2020)
QS World University Ranking	474 (2020)
QS Asia University Ranking	67 (2020)
QS BRICS University Ranking	42 (2019) (Among top 10 Indian public educational institutions/universities)

### QS World Subject-Wise, 2019

Development Studies	17
Anthropology	51-100
Geography and Area Studies	151-200
Sociology	101-150
Economics and Econometrics	101-150
Physics and Astronomy	251-300
Chemistry	251-300
Biological Sciences	301-350

### QS World University Graduate Employability Ranking, 2020

Indicators	Published for the year 2020
Overall Scores	191-200
Alumni Outcomes	20
Employer Reputation	173
Employer-Student Connections	201+
Partnership with Employers	201+



- **Department of Anthropology**, featured in the top 100 in QS global ranking-2019. It is the only Anthropology Department in India to have achieved this distinction.
- **Department of Economics** is ranked the highest amongst University Economics Departments in India by RePEc, a global electronic archive of working papers and publications in Economics (<https://ideas.repec.org/top/top.india.html>).
- **Department of Mathematics** is ranked 156 in Asia in the Times Higher Education Rankings 2019 and 10<sup>th</sup> in QS World University Ranking in India.
- **Department of Physics and Astrophysics** maintained its position as the topmost university Physics department in the country in QS rankings.
- **Department of Social Work** is ranked second-best School of Social Work in India as per Outlook survey, 2019.

## RECENT INITIATIVES OF THE UNIVERSITY

### INSTITUTION OF EMINENCE

The University of Delhi achieved a significant distinction in terms of being recognised as the Institution of Eminence (IoE) by the Ministry of Human Resource Development (MHRD), Government of India. This distinction has been achieved as a result of the continuing efforts and contribution of our students, researchers, teachers, administrative staff, alumni and all the stakeholders. It is extraordinary in the sense that the competition for a limited number of institutions to be so recognised by the MHRD was both serious and severe.

The IoE proposal focused on the 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 we will teach, 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 strategic plan of the University of Delhi envisions stimulating academic life in campus and beyond, leading higher education institutions in India. As stated in the IoE document:

*“We aim to build a committed cadre of principled and self-assured leaders enabling them to take the nation forward, offer our young citizens necessary space and world-class opportunities, provide our scholars the environment and resources to become major contributors to global thought, and be aligned with the quality of international education that is essential to ensure India's preeminent position as a major educational player in the world.”*

The funding support has been sought for teaching, research and skill enhancement and development programmes under a novel interdisciplinary/multi-disciplinary theme-based initiative, modern amenities including hostel facilities and recreational facilities for resident students and staff, expansion and upgradation of health and wellness facilities, and faculty housing to offer a residential campus environment.

### NAAC ACCREDITATION

The University of Delhi has gone through the process of assessment and accreditation in 2018, conducted by the National Assessment and Accreditation Council (NAAC), under the First Cycle. This accreditation is as per the Revised Framework of NAAC, which was implemented in 2017, and where the primary focus 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 schedule of visit for Peer Team was made keeping in mind the wide spectrum of activities listed in the Qualitative Metrics of the SSR and validation of the claims made therein. The Peer Team carried out an in-depth verification and validation of the claims made 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<sup>+</sup> grade in its First Cycle, which is valid for a period of 5 years from November 30, 2018.

### **GRADED AUTONOMY**

The University of Delhi is one of five Central Universities to be graded as Category-I by the University Grants Commission (UGC) as per the provision of UGC (Categorisation of Universities (only) for Grant of Graded Autonomy) Regulations, 2018. The University of Delhi may, *inter alia*, take the following initiatives without approval of the UGC, provided no demand for funds is made from the Government:

- a. May start a new course/programme/department/school/centre in disciplines that form a part of its existing academic framework.
- b. May open constituent units/Off-campus centres within its geographical jurisdiction.
- c. May start skill courses, consistent with the National Skills Qualification Framework.
- d. May open research parks, incubation centres, university- society linkage centres.
- e. May hire foreign faculty having taught at any institution appearing in top five hundred of any of the world-renowned ranking frameworks.
- f. Shall be free to admit foreign students on merit, subject to a maximum of twenty percent, over and above the strength of their approved domestic students.
- g. Shall build in an incentive structure to attract talented faculty.
- h. May engage in academic collaborations with foreign educational institutions.

### **CURRICULUM REVISION**

The University of Delhi undertook an elaborate exercise of the process of updating and modernizing all its undergraduate and postgraduate programmes in the year 2018-19 and incorporated Learning Outcome Based Curriculum Framework (LOCF) and revised the courses under the Choice-Based Credit System (CBCS). The revised courses are effective from the academic year 2019-20 and are available to the students enrolled either in regular or distance learning mode of the University. Revised undergraduate courses are also applicable to the students of School of Open Learning (SOL) as well as the students of Non-Collegiate Women Education Board (NCWEB). These courses are expected to benefit close to seven lakh students enrolled under regular and distance learning (SOL) mode as well as NCWEB. It is notable that the revised courses in distance learning mode are at par with those in conventional mode.

The revised courses take care of varied learning needs of the students in terms of learning outcomes, knowledge outcomes, skill outcomes and personality outcomes. Courses covering the varied learning needs of the students are in synchrony with the requirements of accreditation processes that the University needs to undergo and also to meet international academic standards.

Revision of undergraduate and postgraduate courses was done by following a democratic process involving stakeholders at various levels of the curriculum development.

Revision and restructuring of 67 postgraduate programmes comprising about 2500 courses under CBCS incorporating LOCF was coordinated by the committee for postgraduate course revision. Three types of courses were listed in each programme: (i) Core courses (ii) Elective courses – specific to the discipline for students of the department, and (iii) Open Elective courses - open to the students within the same or other departments subject to fulfilling of the pre-requisite eligibility to be identified by the department. All postgraduate courses were restructured and revised with total credits ranging between 80 to 100 credits (including 8 credits of Open Elective courses) required for successful completion of the degree. The committee coordinating the postgraduate course revision and restructuring provided a template to all the departments for the purpose of developing courses as per LOCF requirements.

The LOCF-based undergraduate course revision (UGCR) undertaken by the University of Delhi was one of the first such initiatives in India having specified time/space for experiential learning related activities. The entire exercise was covered in four months with continuous monitoring on Picture in Picture (PinP) mode through in-house self-designed Dashboard. About 3500 courses from over 70 undergraduate programmes were covered under LOCF. Approximately 1000 Stakeholders (International and National Experts, Alumni, Students, Industry, etc) including two former Vice Chancellors were engaged for getting feedback and suggestions. One of the highlights of the curriculum revision was outlining course objectives and weekly Teaching-Learning processes in terms of pedagogy. The course objectives were represented in terms of ethics, social, cultural outlook, global knowledge, skills related to 4th Industrial Revolution, environmental resilience/sustainability and studies related to public good and CSR.

It is expected that the revised undergraduate and postgraduate courses explicating learning outcomes will help in bringing comparability of learning outcomes across universities at national and international level and facilitate the mobility of the students in an objective way.

### **ESTABLISHMENT OF NEW CENTRE/ INSTITUTIONS**

The University is in the process of establishing two new centres - namely, Centre for Disability Studies and Delhi School of Public Policy & Governance. Once it is operational, the Centre for Disability Studies will offer Certificate, Diploma and Postgraduate degree courses and Research programmes. The vision of the Delhi School of Public Policy & Governance is to provide an interdisciplinary platform for learning and research on Public Policy and Governance.

Three new centres/institutes have already started functioning:

- Delhi School of Journalism
- Delhi School of Transnational Affairs
- Institute of Cyber Security and Law

### **EXAMINATIONS**

- In 2018, University conducted the entrance examinations in multiple cities of the country for easy access of the applicants. The Computer-based Examination system was extended to all postgraduate, M.Phil. and Ph.D. programmes. The examination centres were spread across 18 cities in continuation of the India-wide Entrance venues which started from 2016.
- One of the major achievements in the year 2018 was the conduct of the examinations for the School of Open Learning (SOL) exclusively at the colleges/departments of the University. It was the first time that no government, public or private school was engaged as examination centre for conducting the

examinations of the SOL. Date-sheets were specially designed so that numbers of examination centers were reduced significantly from 181 to 70 and resulted in deployment of no external observers and limited infrastructure.

- 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
- Dedicated, comprehensive and user friendly online portal of the Examination Wing providing easy access to datesheets, results, notifications, services and forms
- Online portal for receiving marks of theory examinations, internal assessment and practical papers
- 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
- Web-generated statement of marks
- Conduct of computer based online entrance examination for the first time in 2017 for nine professional undergraduate programmes at 13 cities across the country in three shifts
- Conduct of computer based online entrance examination for all postgraduate programmes, professional undergraduate programmes, M.Phil. and Ph.D. programmes at 18 cities across the country including Delhi.

## ADMISSIONS

*To ensure the fairness and efficiency of its admissions, the University has implemented the following*

- Adopted and implemented policies towards streamlining the student-friendly, glitch-free, online, fair and transparent Centralized Online Admission Process for undergraduate, postgraduate, M.Phil. and Ph.D. applicants since 2016 based on the theme “Go-Green, Go-Digital and Minimum Human intervention” with the requirement of presentation of minimum mandatory documents and returning the same after verification from either online repository or mandatory Forensic Examination.
- Centralized and detailed Information Bulletins regarding procedure and schedules of admission are available through the University Website.
- For the programmes where entrance examinations are mandatory, the examinations have been conducted in various parts of the country for wider reach.
- Sensitized the Admission Procedure in the University of Delhi by (a) conducting Open Days in various Colleges of Delhi, (b) reporting to digital and print media and (c) press briefing/ releases.
- Delhi University Centralized Admission Management System (DUCAMS) enabled the following:
  - a. Eligibility Check Tool to facilitate eligibility in Colleges/ Departments based on their score card
  - b. Applicant friendly e-Wallet to make payments
  - c. Display of Course and Category wise vacant seats for applicants
  - d. Integration with CBSE was successfully achieved for the online verification of candidates' marks
  - e. Alerts/ updates through SMS to applicants for every step in Admission Process.

- Adopted a policy to consider only those Boards from India which are recognized by the Council of Boards of School Education (COBSE) to avoid fake Boards.
- Adopted measures to achieve ~ 100% admissions under all reserved and minority categories by launching Special-Drive.
- Video-graphed all Performance Based Admissions in Sports, Extra Curricular Activities, and Music.
- Sports quota admissions are done through a centralised, rigorous and fair process.
- Sports quota admission process is made simple and student-friendly by changing multiple sports trials in different colleges into a single sport trial for one sport.
- Like sports quota admissions, Extracurricular Activities (ECA) admissions are simplified by arranging centralised ECA trial. Presently, an applicant need not take multiple trial for one ECA; one trial will suffice.
- M.Phil./Ph.D. admission process is made transparent by publicizing the syllabi of the entrance examinations for admission in M.Phil./Ph.D. programmes.
- Constituted Grievance Committees for speedy and effective redressal.
- Resolved all payment related grievances by constituting a special assistance help-desk in cooperation with the designated Bank.
- Automatic selection for women applicants from Delhi was enabled through software for NCWEB admission.
- Transfer of students from one college to another was facilitated by automatic adjustment of the admission fee.

### **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

### **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 entered into MoU with MHRD, UGC and NICSI 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

### **LECTURE SERIES**

#### **Percipience – DU Eminent Alumni Lecture Series**

The PERCIPIENCE Lecture Series aims to strengthen the continuing bond between the University and its huge university diaspora alumni.

#### **Percipience – Dr. Bibek Debroy, February 8, 2019**

The University of Delhi organized the third lecture of PERCIPIENCE on “The Notion of Governance in the Mahabharata, Ramayana and Puranas” by distinguished alumnus, Dr. Bibek Debroy, Chairman of the

Economic Advisory Council to the Prime Minister and Member, NITI Aayog on 8<sup>th</sup> February, 2019 at 2:30 pm in the Convention Hall, Viceregal Lodge, University of Delhi. The lecture was presided over by Hon'ble Vice Chancellor Prof. Yogesh Tyagi.

Dr. Bibek Debroy is an alumnus of Delhi School of Economics, University of Delhi. He has the distinction of holding two honorary doctorate degrees in seemingly unrelated fields- Economics and Sanskrit. Dr. Debroy discussed the Indian Ideologies of looking at governance from ancient times till present day. His in-depth knowledge in Economics, Indology and Sanskrit was clearly evident during his talk that reflected a creative blend of these fields.

#### **Percipience – Shri Shakti Sinha, February 23, 2019**

The University of Delhi organized the fourth lecture of PERCIPIENCE on “The Prime Minister: Over the Decades” by distinguished alumnus, Shri Shakti Sinha, Director, Nehru Memorial Museum and Library, on 23<sup>rd</sup> February, 2019 at 2.30 p.m. in the Conference Centre, University of Delhi. The lecture was presided over by Hon'ble Vice Chancellor Prof. Yogesh Tyagi.

Shri Shakti Sinha is an alumnus of the University of Delhi and studied in Hindu College and Department of History. He was an officer of the Indian Administrative Service and served as Private Secretary to the Late Prime Minister, Shri A. B. Vajpayee. Shri Sinha discussed in brief about all the Prime Ministers of India and deliberated about the parliamentary functioning under their regime. Students of the University of Delhi participated enthusiastically in the event and presented a cultural programme.

#### **Ambassadorial Lecture Series**

Ambassadorial Lecture Series are organized as part of the Distinguished Lecture Series under the aegis of the Delhi School of Transnational Affairs (DSTA) in collaboration with the Ministry of External Affairs, Government of India.

#### **Ambassadorial lecture Series – Ambassador Asoke Mukerji, March 29, 2019**

The University of Delhi organized a Distinguished Lecture entitled ‘The Impact of Multilateralism on India’, by Ambassador Asoke Mukerji, former Permanent Representative of India to the United Nations on Friday, 29<sup>th</sup> March, 2019 at 2.30 pm in the Convention Hall, Viceregal Lodge. The lecture was presided over by Professor Yogesh Tyagi, Hon'ble Vice Chancellor of University of Delhi.

During his lecture, Ambassador Mukerji emphasized that international cooperation is crucial for implementing the multilateral sustainable development objective contained in Agenda 2030, with its 17 Sustainable Developmental Goals (SDG) of United Nations. His lecture was followed by an active question answer session with students, research scholars and faculty members of the University of Delhi.

### **RESEARCH HIGHLIGHTS**

The University of Delhi is internationally acclaimed for excellence in research and innovation. The University is research-intensive and seeks to create and share knowledge as well as technical know-how through quality research driven by its eminent faculty. Its strong commitment to excellence in research is evident from the fact that the h-index of the University stands at 191 (as per Scopus database), which is highest among the Indian Universities.

#### **Extramural Research Grants**

The University has attracted extramural research projects 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 Prasar, SERB-DST, Japan Foundation, SEWA-THDC, MOSJ&E, DAE, MWCD, INSA, TISS-DU, Leverhulme Trust UK, ICHR etc.

In 2018-19, the University has 34 ongoing research projects with grants of more than Rs. 1 Crore and 222 ongoing research projects with grants above Rs. 10 Lakhs.

During this period there were 361 projects which were ongoing and amounted to around Rs. 272 Crores. The University of Delhi is also the recipient of the highest DST-PURSE grant for Phase-II (2014-2019) - Rs.40.80 Crores.

#### **Departments with Fund for Improvement of S&T (DST-FIST)**

Anthropology; Botany; Chemistry; Genetics; Mathematics; Physics & Astrophysics; Plant Molecular Biology; Zoology

#### **Departments getting Financial Assistance under UGC- SAP**

##### **Departmental Research Support (DRS)**

Biochemistry; Botany; Dr. B.R. Ambedkar Centre for Bio-Medical Research; Hindi; Modern India Languages and Literary Studies; Persian; Psychology

##### **Department of Special Assistance (DSA)**

English

##### **Centre of Advanced Study (CAS)**

Buddhist Studies; Chemistry; Economics; Geology; History; Linguistics; Physics & Astrophysics; Political Science; Zoology

##### **Area Study Programmes (ASP)**

African Studies; East Asian Studies

#### **Research Journals of the University**

There are several journals which are published by individual departments and colleges including *Akademios*; *Indian Economic Review*; *Journal of Commerce and Business Studies*; *Indian Law Journal*; *Indian Journal of African Studies*; *Journal of Law Teachers of India*; *The Indian Journal of Chest Diseases & Allied Sciences*; *Journal of Library & Information Science*; *Persian Research Journal*; *Ramanujan International Journal of Business and Research*; *Delhi Journal of Contemporary Law*; *Phytomorphology*; *Vageshwarietc.*

#### **Electropreneur Park and Incubation Centres at the University**

##### **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 for the products produced through the scheme for India and other growth markets, to create employment at various levels, and to create long-term partnership with strategic sectors. The Park provides mentorships to the incubatees as per their needs e.g. Strategic, Investment, Legal, Management etc.

##### **Achievements of the Electropreneur Park (Since April 2016)**

- **20 Start-ups** incubated, 5 Pre-incubated



- **10 Start-ups** graduated
- **19 IP** Patents Filed
- **20** Product Launches
- **20** Products under development
- **25 Crore** INR revenue generated by start-ups
- **11.42 Crore** INR of external funding to start-ups

**Recent Start-up\* under incubation at Electropreneur Park in 2018-19:**

<b>Start-up</b>	<b>Product</b>
<b>EVI Technologies Pvt. Ltd.</b>	Indigenously developed DC based fast charging solutions and charging stations for electric vehicles
<b>Quickproto</b>	Developing a range of monitoring and control systems for gas and power utility companies
<b>Leap Aeronautics</b>	Developing fully electric "Vertical Take-off and Landing" vehicle for urban transport
<b>Dweepi Innovation</b>	Developing vibration-based train detection system for fault detection and workman's safety

*\*Start-up by students from the University of Delhi*

**Technology Business Incubator**

The Ministry of Micro, Small Medium Enterprise (MoMSME) has supported the Technology Business Incubator (TBI) at the Cluster Innovation Centre, University of Delhi (DUCIC, TBI) under the scheme "Support for Entrepreneurial and Managerial Development of SMEs through Incubators". TBI has been set up with an objective to facilitate nurturing of ideas by promoting emerging technological and knowledge based innovative ventures. DUCIC-TBI (MSME), provides funding (through MoMSME), mentoring and co-working space to students facilitate start-ups So far, eight projects have been incubated and three profitable companies have graduated.

**Design Innovation Centre at University of Delhi with funding from the Ministry of MHRD**

Design-centred innovation is a force multiplier that can help the country move up the value chain, making Indian industry globally competitive. In this context, Ministry of Human Resource Development proposed to launch 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 together all these schools, was set up. University of Delhi was one of the 5 institutions that were granted the DIC project on 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).

Total Funding provided by MHRD is **Rs. 10 Crores (Hub: 7 crores, Spoke: 1 crore each)**

Operational since July 2015, DIC, DU has carried out many design innovation projects and offered courses on design thinking and entrepreneurship. It is in the process of establishing state-of-art Design and product development facilities. It offers Fellowships, Internships and Industry Linkage Programmes to students with innovative ideas.

### **IPR Cell and Patent Fund**

The University has guidelines for patent filing and collaborative research. A patent fund was set up for the University faculty. During the year 2018-19, three patents (2 Indian and 1 Foreign) were granted, eight patent applications (6 Indian and 2 Foreign) were published and 3 new Indian Patent Applications were filed.

### **Faculty Members with Grants above Rupees One Crore:**

During the reporting period, some faculty members of the University have been sanctioned projects and have Ongoing Research Projects of the value of more than Rupees One Crore each.

1. Prof. Daman Saluja, **ACBR**, Rs. 1.28 Crore from DBT
2. Dr. Vipin Gupta, **Anthropology** Rs. 3.81 Crore from DBT
3. Prof. Manu Agarwal, **Botany**, Rs. 1.12 Crore from ICAR
4. Prof. Arun Jagannath, **Botany**, Rs. 1.08 Crore from DBT
5. Prof. Renu Deswal, **Botany**, Rs. 1.23 Crore from IBSD
6. Dr. Garima Khare, **Biochemistry**, Rs. 1.18 Crore and Rs. 1.03 Crore from DBT
7. Prof. V. K. Chaudhary, **Biochemistry**, Rs. 3.55 Crore, Rs. 2.09 Crore and Rs. 2.47 Crore from DBT
8. Dr. Satish K. Awasthi, **Chemistry**, Rs. 4.28 Crore from DST
9. Prof. C. R. Babu, **CEMDE**, Rs. 2.15 Crore, Rs. 2 Crore and Rs. 1.16 Crore from DDA
10. Prof. Christel Devadawson, **English**, Rs. 1.07 Crore from UGC
11. Prof. Radhey Shyam Sharma, **Environmental Studies**, Rs. 1.29 Crore from MOEF
12. Prof. B. K. Thelma, **Genetics**, Rs. 5.71 Crore and 1.06 Crore from DBT
13. Prof. A. K. Pradhan, **Genetics**, Rs. 1.08 Crore, 4.86 Crore and 11.87 Crore from DBT BBSRC and DBT
14. Dr. Md. Naimuddin, **Physics & Astrophysics**, Rs. 1.78 Crore from DST
15. Dr. Vinay Gupta, **Physics & Astrophysics**, Rs. 4.44 Crore from DST
16. Prof. B.C. Chaudhary, **Physics & Astrophysics**, Rs. 1.78 Crore from DST
17. Prof. Kirti Ranjan, **Physics & Astrophysics**, Rs. 11.73 Crore from DST
18. Prof. J. P. Khurana, **Plant Molecular Biology**, Rs. 1.38 Crore from DBT
19. Prof. Sanjay Kapoor, **Plant Molecular Biology**, Rs. 1.31 Crore and 1.67 Crore from DBT
20. Prof. Arun K Sharma, **Plant Molecular Biology**, Rs. 1.30 Crore from DBT
21. Prof. Akhilesh K Tyagi, **Plant Molecular Biology**, Rs. 1.96 Crore and 9.17 Crore from DBT NIPGR and DBT
22. Prof. Anil Grover, **Plant Molecular Biology**, Rs. 1.12 Crore from NASF
23. Dr.. R. K. Negi, **Zoology**, Rs. 1.11 Crore from DBT
24. Prof. Vinod Kumar, **Zoology**, Rs. 1.59 Crore from DBT

**Faculty Members with Grants above Rupees Ten Lakhs:**

1.	Dr. Ajay K Yadav	ACBR
2.	Dr. Aparna Dixit	ACBR
3.	Prof. Daman Saluja	ACBR
4.	Prof. Vani Brahmachari	ACBR
5.	Dr. Madhu Chopra	ACBR
6.	Dr. L R Singh	ACBR
7.	Dr. Richa Arya	ACBR
8.	Dr. Itender Singh	ACBR
9.	Dr. Rakhi Srivastava	ACBR
10.	Dr. Chander Bhushan Mishra	ACBR
11.	Prof. J. P. Dubey	Adult Continuing Education & Extension
12.	Prof. A. K. Kapoor	Anthropology
13.	Dr. Vipin Gupta	Anthropology
14.	Dr. Meenal Dhall	Anthropology
15.	Prof. Anup K. Kapoor	Anthropology
16.	Dr. Mary Grace D Tungdim	Anthropology
17.	Prof. S. M. Patnaik	Anthropology
18.	Prof. V. R. Rao	Anthropology
19.	Prof. Shailendra Goel (3)	Botany
20.	Dr. Jasmeet Kaur Abat	Botany
21.	Dr. Girish Mishra	Botany
22.	Prof. Manu Agarwal (3)	Botany
23.	Dr. Yashwanti Mudgil (2)	Botany
24.	Dr. Smita Tripathi	Botany
25.	Dr. Kuldeep Sharma	Botany
26.	Dr. Priya Panjabi Massand	Botany
27.	Prof. R. Geeta	Botany
28.	Dr. Ratul Baishya (2)	Botany
29.	Prof. S. C. Bhatla (2)	Botany
30.	Prof. Veena Agrawal	Botany
31.	Dr. Sandip Das	Botany
32.	Prof. P. L. Uniyal	Botany

33.	Prof. K. S. Rao	Botany
34.	Prof. Vishnu Bhat	Botany
35.	Prof. Suman Lakhanpaul	Botany
36.	Prof. Suman Kundu (2)	Biochemistry
37.	Dr. Amita Gupta (2)	Biochemistry
38.	Prof. D P Sarkar	Biochemistry
39.	Prof. Alo Nag (2)	Biochemistry
40.	Dr. Manisha Goel (2)	Biophysics
41.	Prof. Hira Paul Gangnegi	Buddhist Studies
42.	Prof. C. R. Babu (5)	CEMDE
43.	Prof. Inderjit Singh	CEMDE
44.	Dr. Sunita Negi	CIC
45.	Dr. Sonam Singh	CIC
46.	Dr. Satchidananda Purohit	CIC
47.	Prof. Raj Kishore Sharma (2)	Chemistry
48.	Dr. Firasat Hussain	Chemistry
49.	Prof. Subho Mozumdar	Chemistry
50.	Prof. Akhilesh K. Verma (4)	Chemistry
51.	Prof. Ashok K. Prasad	Chemistry
52.	Prof. Rama Kant (2)	Chemistry
53.	Prof. Ramesh Chandra (3)	Chemistry
54.	Dr. B. K. Singh (4)	Chemistry
55.	Dr. Pooja Yadav	Chemistry
56.	Dr. Archana Gupta	Chemistry
57.	Dr. Taruna Singh	Chemistry
58.	Dr. S. K. Awasthi	Chemistry
59.	Dr. Sandeep Kaur	Chemistry
60.	Dr. Saroj Yadav	Chemistry
61.	Dr. K. Gopalaiah	Chemistry
62.	Prof. Diwan S. Rawat (2)	Chemistry
63.	Prof. Sunil Kumar Sharma (2)	Chemistry
64.	Prof. Rajeev Gupta (2)	Chemistry
65.	Dr. N. Tirupathi	Chemistry

66.	Dr. A. Sakthivel	Chemistry
67.	Dr. Amarjeet Kaur	Chemistry
68.	Dr. Sasanka Deka (2)	Chemistry
69.	Dr. Surendra Singh (2)	Chemistry
70.	Dr. R. Nagarajan	Chemistry
71.	Dr. P. Venkatesu (2)	Chemistry
72.	Dr. Indrajit Roy (2)	Chemistry
73.	Prof. Parbati Biswas (2)	Chemistry
74.	Prof. Sitharaman Uma	Chemistry
75.	Prof. Gurmeet Singh	Chemistry
76.	Dr. Ramendra Pratap	Chemistry
77.	Prof. Mridula Gupta (2)	Electronic Science
78.	Dr. Preeti Singh	Electronic Science
79.	Prof. S. D. Biju	Environmental Studies
80.	Dr. Chirashree Ghosh (2)	Environmental Studies
81.	Dr. Namita Soni	Environmental Studies
82.	Dr. Swati Diwakar	Environmental Studies
83.	Ms. Vandana Mishra	Environmental Studies
84.	Prof. Sunita Singh Sengupta	FMS
85.	Dr. Monika Singhanian	FMS
86.	Prof. S. C. Rai	Geography
87.	Dr. P. K. Pathak	Geography
88.	Dr. Manika Gupta	Geology
89.	Dr. Longjam Kabita Chanu	Geology
90.	Prof. Pankaj Srivastava (2)	Geology
91.	Dr. Shashak Shekhar	Geology
92.	Dr. Shinjana Sen (2)	Geology
93.	Dr. Pramod Kumar	Geology
94.	Mr. Nilanjan Ghosh	Geology
95.	Prof. J. P. Shrivastava	Geology
96.	Prof. N. C. Pant	Geology
97.	Prof. Surajit Sarkar (3)	Genetics
98.	Prof. B K Thelma	Genetics

99. Dr. Vartika Sinha	Genetics
100. Dr. Naorem Aruna Devi	Genetics
101. Dr. Tapasaya Srivastava	Genetics
102. Prof. A K Pradhan	Genetics
103. Prof. M V Rajam (2)	Genetics
104. Prof. P K Burma	Genetics
105. Dr. Kaustav Datta (3)	Genetics
106. Dr. Manju Mukul Kamble	Hindi
107. Dr. Tanmoy Bhattacharya	Linguistic
108. Dr. Hemant Kumar Singh	Mathematics
109. Prof. P. C. Pattanaik	MIL & LS
110. Prof. Rani Gupta (2)	Microbiology
111. Dr. Swati Saha (2)	Microbiology
112. Dr. Rajeev Kaul	Microbiology
113. Dr. Neha Pandey	Microbiology
114. Dr. Balaganpathi	Philosophy
115. Dr. Samit Kumar Mandal	Physics & Astrophysics
116. Dr. Sanjay Kr. Chamoli (2)	Physics & Astrophysics
117. Prof. Vinay Gupta (3)	Physics & Astrophysics
118. Prof. Sanjay Jain (2)	Physics & Astrophysics
119. Dr. Sanjeev Kr. Verma	Physics & Astrophysics
120. Dr. Ashok Kumar	Physics & Astrophysics
121. Prof. P. D. Sahare (2)	Physics & Astrophysics
122. Dr. Sangita Negi	Physics & Astrophysics
123. Dr. Binay Kumar (2)	Physics & Astrophysics
124. Prof. T. R. Seshadri	Physics & Astrophysics
125. Dr. S. Murugavel	Physics & Astrophysics
126. Dr. Unnati	Physics & Astrophysics
127. Dr. S. A. Hashmi	Physics & Astrophysics
128. Dr. S. A. Annapoorni	Physics & Astrophysics
129. Dr. Awadhesh Prasad	Physics & Astrophysics
130. Dr. Nivedita Deo	Physics & Astrophysics
131. Prof. H. P. Singh	Physics & Astrophysics

132. Dr. Devki Nandan Gupta	Physics & Astrophysics
133. Dr. Amita Chandra	Physics & Astrophysics
134. Prof. Paramjit Khurana (2)	Plant Molecular Biology
135. Prof. G K Pandey (2)	Plant Molecular Biology
136. Prof. Saurabh Raghuvanshi (2)	Plant Molecular Biology
137. Dr. Pragya Hejib	Plant Molecular Biology
138. Dr. Surekha K. Agarwal (2)	Plant Molecular Biology
139. Dr. Rekha Saxena (2)	Political Science
140. Prof. Sanjeev Kr. HM	Political Science
141. Prof. Neera Agnimitra	Social Work
142. Dr. Radhika Chopra	Sociology
143. Dr. Balaram Shukla	Sanskrit
144. Prof. Rina Chakrabarti (3)	Zoology
145. Prof. Shibnath Mazumder	Zoology
146. Dr. Neerja Aggarwal	Zoology
147. Prof. Neeta Sehgal	Zoology
148. Ms. Shama Singh	Zoology
149. Dr. Sonam Popli	Zoology
150. Dr. Nidhi Srivastava	Zoology
151. Dr. Rita Singh	Zoology
152. Prof. Yogendra Singh (2)	Zoology
153. Prof. Vinod Kumar	Zoology
154. Prof. Rup Lal (2)	Zoology
155. Prof. Rajagopal Raman (2)	Zoology
156. Prof. Alok Chandra Bharti (3)	Zoology
157. Prof. RK Seth	Zoology
158. Prof. D. K. Singh (2)	Zoology
159. Dr. Ram Krishan Negi	Zoology

#### Foreign Grants

Name	Department	Amount (Rs.)
1. Dr. B. W. Pandey	Geography	785880

## FACULTY AWARDS/HONOURS

Dr. KN Saraswathy, **Department of Anthropology**, felicitated for contribution in the field of Education by the Government of Andhra Pradesh, International Women's day, March, 2019.

Prof. PC Joshi, **Department of Anthropology**, Lifetime Achievement Award from Department of Anthropology, Panjab University, Chandigarh, February, 2019.

Prof. Veena Agrawal, **Department of Botany**, "Honorary Professor" by Samarkand State University, Uzbekistan in 2018.

Prof. P.L. Uniyal, **Department of Botany**, Fellow of Indian Fern Society, India in 2019.

Prof. Renu Deswal, **Department of Botany**, Executive Committee Member, Seabuckthorn Association of India since September, 2017.

Prof K.T.S. Sarao, **Department of Buddhist Studies**, prestigious *Certificate of Honour for Excellence in Pāli Language* by the President of India as part of the Independence Day Honours 2018.

Professor (Dr) Usha Tandon, Professor-in-Charge of **Campus Law Centre**, "Phenomenal She", on International Women Day, 2019, by Indian National Bar Association.

Prof. Ramesh Chandra, **Department of Chemistry**, President – World Congress of Nanomedical Sciences January, 2019.

Prof. Ramesh Chandra, **Department of Chemistry**, Millennium Plaques of Honour Award (Life Time Achievement Award for Contribution in Science & Technology) for 2017-2018, by Indian Science Congress Association (ISCA) March, 2018.

Prof. Ajay Kumar Singh, **Department of Commerce**, Leadership in Higher Education Award by Higher Education Forum at 6<sup>th</sup> Regional Conference on "Quality & Accreditation of Higher Education in India: Policy & Best Practices".

Prof. V.K Shrotriya, **Department of Commerce**, Best Business Academic of the Year (BBAY) Gold Medal Award for 2018 at Osmania University on December 2018.

Dr. Manasvini M. Yogi (OSD), **Delhi School of Journalism**, Sankalp Se siddhi Award 2018 for Excellence in Education by Hope and Faith Foundation on December 2018.

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

Prof. Shreekanth Gupta, **Department of Economics**, Vice-President, Indian Society for Ecological Economics (INSEE), 2018-2020.

Prof. Meenakshi J. V. **Department of Economics**, Member, National Statistical Commission, Ministry of Statistics and Programme Implementation, Government of India.

Prof. Ram Singh, **Department of Economics**, Sub-domain Chair for The Scheme for Promotion of Academic and Research Collaboration (SPARC), Government of India.

Prof. Rohini Somanathan, **Department of Economics**, International Economic Association (IEA) Fellow (life-time title), 2018.

Prof. M.K. Pandit, **Department of Environmental Studies**, Ngee Ann Kongsi Distinguished Visiting Professor by National University of Singapore, Singapore.

Dr. Chirashree Ghosh, **Department of Environmental Studies**, "Bharat Vikas Award" by Intellectuals' Social Responsibility (ISRI, India) at Bhubaneswar, Odisha on December 2018.



Dr. Chirashree Ghosh, **Department of Environmental Studies**, “NESA Environmentalist of the Year Award-2018” awarded by National Environmental Science Academy (NESA) on December 2018.

Prof Thelma, **Department of Genetics**, Prof. SP Raychaudhuri endowment lecture award, Indian Society of Cell Biology.

Prof. Rajam, **Department of Genetics**, Prof. H. C. Arya Gold Medal, 2018. Delivered his Memorial Lecture during 40<sup>th</sup> PTCA (I) meeting at IIT, Gauwati, February, 2019.

Prof. Pradeep Kumar Burma, **Department of Genetics**, Vice-President of Indian Society of Cell Biology 2019-2021.

Prof. R. B. Singh, **Department of Geography**, First Indian and Second Asian Secretary General and Treasurer of the International Geographical Union for 2018-22.

Prof. R. B. Singh, **Department of Geography**, President of the Earth System Science Section of the Indian Science Congress Association for 2019-20.

Dr. Subhash Anand, **Department of Geography**, executive member of Commission on Geoheritage, International Geographical Union for 2016-2020.

Prof. C. S. Dubey, **Department of Geology**, Ambassador for Open Education Resources (OER), International Council of Distance Education, Norway for 2017-2019.

Prof. P. Srivastava, **Department of Geology**, Fellow, The Clay Mineral Society of India, New Delhi, 2018.

Prof. M. Sawhney, **Department of Germanic and Romance Studies**, One of 35 world Hispanists invited by Duques de Soria Foundation and King Phillip of Spain September 2018 for discussion on International Hispanism.

Prof. Seema Bawa, **Department of History**, Presidential Address (Ancient India Section), at the 3rd Session of the Haryana History Congress Gurgaon, October 2018.

Dr. R.K. Bhatt, (2019), **Department of Library and Information Science**, Best Teacher Award by Special Library Association -Asian Chapter; Best Teacher Award by Society for Promotion of Libraries Uttar Pradesh.

Dr. K.P. Singh, (2018), **Department of Library and Information Science**, DLA - Professional Excellence Award for Working LIS Leader.

Prof. Anupam Mahajan, **Department of Music**, Sangeet Shree, ABP award, New Delhi.

Prof. Deepti Omchery Bhalla, **Department of Music**, Make In India Award by Bharat Nirman, New Delhi.

Prof. P.B. Kannakumar, **Department of Music**, Sangeet Ratnakar Award by Karnataka Sangita Sabha, New Delhi in 2019.

Prof. T.V. Manikandan **Department of Music**, Sangeet Ratnakar Award by Karnataka Sangita Sabha, New Delhi in March, 2019.

Prof. Avinash Khare, **Department of Physics and Astrophysics**, Appointed Vice-Chancellor of Central University of Sikkim in 2018.

Prof. Brajesh C. Choudhary, **Department of Physics and Astrophysics**, Spokesperson, India-Fermilab Neutrino Collaboration: April 2012- March2017; April 2019-March 2024.

Prof. Brajesh C. Choudhary, **Department of Physics and Astrophysics**, Spokesperson, India-CMS Collaboration: August 2017-August 2021.

Prof. Samit K. Mandal, **Department of Physics and Astrophysics**, Member of NUSTAR Council (with voting right), FAIR-NUSTAR collaboration, GSI, Darmstadt, Germany from January 2019 to 2024.

Prof. Samit K. Mandal, **Department of Physics and Astrophysics**, Joint Secretary: Indian Physical Association July 2014 to July 2018.

Prof. Akhilesh K. Tyagi, **Department of Plant Molecular Biology**, P. Parija Memorial Lecture Award, Ravenshaw University, Cuttack, 2019.

Prof. Paramjit Khurana, **Department of Plant Molecular Biology**, Prof. J.C. Bose National Fellowship, Department of Science & Technology, Government of India, 2017-2022.

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

Prof. Indranil Dasgupta, **Department of Plant Molecular Biology**, J.C. Bose Fellowship, Science and Engineering Research Board, Department of Science & Technology, Government of India, 2017-2022.

Prof. G.K. Pandey **Department of Plant Molecular Biology**, J.J. Chinoy Gold medal award, Indian Society of Plant Physiology, New Delhi, India, 2018.

Prof. G.K. Pandey **Department of Plant Molecular Biology**, Fellow of National Academy of Agricultural Sciences (NAAS), New Delhi, India, 2018.

Prof. Navnita Chadha Behera, **Department of Political Science**, Vice-President for the ISA in March 2019.

Prof. Sunil K Choudhary, **Department of Political Science**, Prof. G Ram Reddy IPSA National Award, Indian Political Science Association, 2018.

Prof. V.S. Dwivedi (2018), **Department of Sanskrit**, Saraswat Samman by Baudhik Vichar Manch avm Parmparik Sahitykar Parishad, Uttar Pradesh, 2018.

Prof. Sanjai Bhatt, **Department of Social Work**, Heritage Shree Award 2018; and appointed as the Regional President (South Asia), International Council on Social Welfare.

Dr. Sanjoy Roy, **Department of Social Work**, Glory of India Gold Medalist Award, 2018;

Dr. Sanjoy Roy, **Department of Social Work**, the Neelkanth Award and Scroll of Appreciation for the Defender of Democracy.

Dr. Sanjoy Roy, **Department of Social Work**, the Best Academician of the Year Award (Male), 2018 by Global Education and Corporate Leadership Awards and was declared the Rising Personality of the Year 2018 by Rifacimento International Group of Editors.

Prof. Madan Mohan Chaturvedi, **Department of Zoology**, Member, Board of Governors (BoG), and Board of Management (BoM), GSFC University, Vadodara, Gujarat;

Prof. Madan Mohan Chaturvedi, **Department of Zoology**, President, Association of Teachers in Biological Sciences, Mumbai, India.

Prof. Rita Singh, **Department of Zoology**, Prof. L. S. Ramaswami Memorial Oration Award and Gold medal.

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#### FACULTY AWARDS/HONOURS IN MEDICAL SCIENCES

Dr. Ashok Kumar Saxena, **Department of Anaesthesiology (UCMS)**, President of North Zone, Indian Society of Anaesthesiologist (ISA).

Dr. Kapil Chaudhary, **Department of Anaesthesiology (MAMC)**, Distinguished Services In Speciality of Anaesthesiology Award by the Indian Society of Anaesthesiologists Delhi Chapter, October 2018.

Dr. Sankat Mochan, **Department of Anatomy (MAMC)**, Dr. H K Chatterjee gold medal, for the best oral paper presented at NATCON 2018.

Dr. Renu Chauhan, **Department of Anatomy (UCMS)**, Outstanding and Exemplary Educator Award on Teacher's day by Physician's Forum of India, September 2018.

Dr. Renu Chauhan, **Department of Anatomy (UCMS)**, awarded by Delhi Doctors Forum on in recognition of outstanding contribution to medical profession and community on December, 2018.

Dr. T.K. Mishra, **Department of Biochemistry (MAMC)**, fellowship of FAMBI by Association of Medical biochemists of India.

Dr. S.K. Bansal, **Department of Biochemistry (VPCI)**, Secretary General, Biotechnology Society of India.

Dr. S. K. Bansal, **Department of Biochemistry (VPCI)**, Vice President- ACBI Delhi Chapter.

Dr. Mohit Gupta, **Department of Cardiology (G.B. Pant Institute of Post Graduate)**, Secretary of Cardiology Society of India- Delhi Branch.

Dr Girish MP, **Department of Cardiology (G.B. Pant Institute of Post Graduate)**, Joint Secretary of Cardiology Society of India- Delhi Branch.

Dr. Suneela Garg, **Department of Community Medicine (MAMC)**, Eminent Teacher Award 2018 by IMA & NDB.

Dr. Suneela Garg, **Department of Community Medicine (MAMC)**, K.N. Rao Memorial oration during IPHA (Lucknow), for innovations in "Health care reaching the Unreached".

Dr Nandini Sharma, **Department of Community Medicine (MAMC)**, Delhi State medical doctor award in February, 2019.

Dr. Archana Singal, **Department of Dermatology & STD (UCMS)**, Fellow, National Academy of Medical Sciences (FAMS) at Puducherry, October, 2018.

Dr. Chander Grover, **Department of Dermatology & STD (UCMS)**, Honorary Fellow at Rita Skin Foundation at the 5th RSF Annual Conference and Workshop on Dermoscopy and Trichoscopy, held at Mumbai, India, February, 2019.

Dr. C.P. Baveja, **Department of Microbiology (MAMC)**, "Doctor State Award" from Government of NCT of Delhi, 2019.

Dr. C.P. Baveja, **Department of Microbiology (MAMC)**, "Distinguished Alumnus Award" of Maulana Azad Medical College, New Delhi, 2018

Dr. Sunita Aggarwal, **Department of Medicine, (MAMC)**, Smt. Pawan Kumari Jain Oration Award in API Delhi State Chapter.

Dr. N.P. Singh, **Department of Microbiology (UCMS)**, Executive member of IAMM, National Chapter from 2016-2018; Executive member IAMM, Delhi Chapter, 2018-19.

Dr. Anuradha Chowdhary, **Department of Microbiology (VPCI)**, Women Achiever Award in Health Care by AMITY University, Uttar Pradesh, India 2018.

Dr. Bindiya Gupta, **Department of Obstetrics & Gynaecology (UCMS)**, Executive committee member AOGIN India.

Dr. Sandhya Jain, **Department of Obstetrics & Gynaecology (UCMS)**, Gold Medal for best slogan on 'Respectful Maternal Care' AOGD Annual conference 25th Nov. 2018

Dr Gita Radhakrishnan, **Department of Obstetrics & Gynaecology (UCMS)**, Delhi State Award for Service Doctors Delhi, February, 2018

Dr. Shalini Rajaram, **Department of Obstetrics & Gynaecology (UCMS)**, President, Association of Gynecologic Oncologists of India, 2018-2019.

Dr. Shalini Rajaram, **Department of Obstetrics & Gynaecology (UCMS)**, President, Society of Vaginal Surgeons, Delhi, 2018-19.

Dr. Shalini Rajaram, **Department of Obstetrics & Gynaecology (UCMS)**, OGSi Corion Award for Best Research (Senior Category), 2018.

Dr. Shalini Rajaram, **Department of Obstetrics & Gynaecology (UCMS)**, ICOG - Dr. Usha Saraiya Guest Oration in Gynecologic Oncology, Kanpur, October 2018.

Dr. Shalini Rajaram, **Department of Obstetrics & Gynaecology (UCMS)**, APJ Abdul Kalam Award for Excellence Delhi Gynecologic Forum, August 2018.

Dr. Richa Sharma, **Department of Obstetrics & Gynaecology (UCMS)**, FOGSI – Dr. C.S Dawn Prize at AICOG, Bengaluru January 2019; FOGSI – Padmabhushan Kamlabai Hospet Award 2018, AICOG, Bengaluru January 2019.

Dr. Richa Sharma, **Department of Obstetrics & Gynaecology (UCMS)**, FOGSI – Leaders of Tomorrow Award 2019, North Zone Yuva FOGSI Conference Noida. February 2019.

Dr. Alpana Singh, **Department of Obstetrics & Gynaecology (UCMS)**, Junior Corion Award for the year 2018, AICOG, Bengaluru, January 2019.

Dr. Alpana Singh, **Department of Obstetrics & Gynaecology (UCMS)**, FICOG (Fellow of Indian college of Obstetrics and Gynaecology) January 2019.

Dr. Amita Suneja, **Department of Obstetrics & Gynaecology (UCMS)**, Teachers of Teachers Award by East Delhi Gynae Forum September 2018.

Dr Abha Singh, **Department of Obstetrics & Gynaecology (LHMC)**, President of Association of Obstetrics and Gynecology Delhi (AOGD year 2018-2019).

Dr. Abha Singh, **Department of Obstetrics & Gynaecology (LHMC)**, "Inspiring Gynaecologist of North India" at Economic times Healthworld Fertility Conclave, October 2018.

Dr. Abha Singh, **Department of Obstetrics & Gynaecology (LHMC)**, Icon of Gynecology of India by GYNECON at Moolchand Hospital, Delhi.

Dr. Swati Agrawal, **Department of Obstetrics & Gynaecology (LHMC)**, "Dr. Kamini Rao Orator" award for North Zone by FOGSI for the year 2018.

Dr. Vidhi Choudhary, **Department of Obstetrics & Gynaecology (LHMC)**, "Inspiring Gynaecologist of North India", Economic times Healthworld fertility conclave, October 2018.

Dr. Minakshi Singh, **Department of Obstetrics & Gynaecology (LHMC)**, FICOG Fellowship on 11 Jan, 2019 at AICOG 2019, Bengaluru.

Dr. Lalit Maini, **Department of Orthopaedics (MAMC)**, Rotary Vocational Award 2018, for outstanding innovation in healthcare; India International Center, June 2018.

Dr. A. Agarwal, **Department of Pediatrics (MAMC)**, President IAP North Delhi.

Dr. Vandana Roy, **Department of Pharmacology (MAMC)**, Membership of National Academy of Medical Sciences.

Dr. Vandana Roy, **Department of Pharmacology (MAMC)**, Executive Member of Delhi Pharmacological Society.

Dr. Satendra Singh, **Department of Physiology (UCMS)**, Shoorveer Award 2018 by Ample Mission in Mumbai for initiatives in disability sector on Aug 2018.

Dr. Anup Mohta, **Department of Surgery (LHMC)**, Fellowship of National Academy of Medical Sciences India on October, 2018.

Dr. Deborshi Sharma, **Department of Surgery (LHMC)**, Vice President (CZ), Association of Minimal Access Surgeons of India during 13th AMASICON held in SGPGI, Lucknow, 2018.

Dr. Priya Hazrah **Department of Surgery (LHMC)**, Fellow of The International College Of Robotic Surgeons, awarded on May 2018.

Dr. Pawanindra Lal **Department of Surgery (MAMC)**, Dr AK SENSARMA Endowment Lecture Award by the ASI at the ASICON at Chennai, December 2018.

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#### SEMINARS/CONFERENCES/WORKSHOPS ORGANIZED

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

**Department of African Studies**, International Conference on Transforming Africa: Potentials & Challenges. organized by Department of African Studies, University of Delhi with the support of Indian Council of Social Science Research (ICSSR), 06<sup>th</sup> - 08<sup>th</sup> February 2019.

**Department of Anthropology**, National Seminar on “Globalization of Indian Tribes: Past, Present, and Future Dynamics”, 26th October 2018.

**Department of Anatomy (LHMC)** organized a sensitization session about organ & body donation for volunteers of Dadhichi Deh Dan Samiti, New Delhi on 18<sup>th</sup> April 2018.

**Department of Anatomy (MAMC)** organized International<sup>3<sup>rd</sup></sup> Asian and African Stereology Congress and Hands on Training Stereology workshop, on 18<sup>th</sup> - 20<sup>th</sup> December 2018.

**Department of Anatomy (UCMS)** organized a workshop (as part of International Conference on Cancer of larynx and hypopharynx and hands, UCMS on 20<sup>th</sup> December 2018.

**Department of Anaesthesiology (LHMC)** organized Acupuncture Training workshop July 16<sup>th</sup> -30<sup>th</sup>, 2018.

**Department of Anaesthesiology (MAMC)** organized Two day National level Conference on “ Facts and Myths in Anesthesia” October 2018

**Department of Anaesthesiology (UCMS)** organized CME on “Critical Care - A paradigm shift” at UCMS. 19<sup>th</sup> – 20<sup>th</sup> January 2019

**Department of Anesthesiology (GIPMER)** organized Accordion – Conference of Critical Care at Metropolis, New Delhi, December 2018. It was preceded by Academic workshop, GIPMER, N Delhi 2<sup>nd</sup> Dec. 2018.

**Department of Arabic** organized a two-day National Seminar on the topic “Arabic scholars of Delhi and their academic contributions” on 29<sup>th</sup> - 30<sup>th</sup> January 2019.

**Department of Biophysics**, One Day Symposium on “Self-Organization in Biology” 16<sup>th</sup> March 2019.

**Department of Business Economics**, Forty-fifth Annual Convention on “India in 2020: Towards a Developed Nation,” at S.P. Jain Centre, University of Delhi South Campus on 27<sup>th</sup> October 2018.

**Department of Biochemistry (LHMC)** was part of organizing 26<sup>th</sup> Annual National Conference of Association of Medical Biochemists of India held from 16<sup>th</sup> - 18<sup>th</sup> November 2018.

**Department of Biochemistry (MAMC)** organized a workshop entitled “Molecular techniques in diagnosis and monitoring of Myeloproliferative Neoplasms” 27<sup>th</sup> -28<sup>th</sup> September 2018.

**Department of Cardiology, JIPMER** organized Delhi CSI chapter Annual Conference of Cardiological Society of India, Delhi Branch, 23<sup>rd</sup> - 24<sup>th</sup> March 2019.

**Department of Community Medicine (LHMC)** organized 4<sup>th</sup> International Conference of Occupational and Environmental Health (ICOEH), 15<sup>th</sup> - 17<sup>th</sup> February 2019.

**Department of Community Medicine (MAMC)** organized WHO Multi Country Workshop on Ear & Hearing Care in SEA region and Technical Advisory Group, 3<sup>rd</sup> to 5<sup>th</sup> October 2018.

**Department of Chemistry**, Prof. Ramesh Chandra, 6<sup>th</sup> World Congress on Nanomedical Sciences - ISNSCON-2018 and Satellite conference of ‘Science and Technology for the Future of Mankind’, 7<sup>th</sup>–10<sup>th</sup> January 2019.

**Department of Commerce**, ‘23<sup>rd</sup> Business Convention Erudition “Blurring Boundaries Uncharted Frontiers” organized by MBA-IB and MBA-HRD, on 12<sup>th</sup> -13<sup>th</sup> October 2018.

**Department of Community Medicine (MAMC)** organized CME on Newer initiatives in Immunization and Vaccine Safety on 14<sup>th</sup> November 2018.

**Department of Dermatology & STD** organized monthly clinical meet of IADV, 29<sup>th</sup> September 2018.

**Department of Economics**, Two-day Asia-Pacific Innovation Conference 2018 on December 13<sup>th</sup> - 14<sup>th</sup> 2018 Hosted by Department of Economics, Delhi School of Economics

**Department of Education** organized a National Seminar on Interface of Children’s Literature, School Curriculum and Pedagogy 23<sup>rd</sup> February 2019 under the aegis IASE-MHRD.

**Department of English**, A two-day International Conference on Politic, Power and Spectacles in Shakespeare was organized by the Shakespeare Society of India in collaboration with Kirori Mal College on 7<sup>th</sup> and 8<sup>th</sup> March 2019.

**Department of Environmental Studies**, National Workshop on Emerging Pollution Challenges on Earth Ecosystem- SAFAR, India’s Novel Initiative, 26<sup>th</sup> March 2019, organized by Environmental Pollution Laboratory; sponsored by Ministry of Earth Sciences, Government of India.

**Department of Financial Studies**, Conference on Entrepreneurship in Financial Services was organized on 2<sup>nd</sup> November 2018.

**Department of General Medicine (LHMC)** in collaboration with Delhi Diabetic Forum organized CME on Diabetes-1, Diabetes 2 July - August 2018.

**Department of General Medicine (MAMC)** organized two day international conference on “Challenge of Climate Change and Air Pollution – Impact on Health and Economic Burden” on 14<sup>th</sup> – 15<sup>th</sup> Dec. 2018.

**Department of Geology**, Workshop on Advances in Stratigraphy and Geochronology of Indian sedimentary basins: Road ahead. 26<sup>th</sup> February 2019.

**Department of Germanic and Romance Studies**, Annual International Seminar on the theme, ‘of Remembering and Forgetting: perspectives on History and Memory’, 7<sup>th</sup> – 9<sup>th</sup> March 2019.

**Department of Hindi**, one National Seminar on ‘Adivasi Sahitya, Sanskriti Aur Kala: Chunautiyan Evam Sambhavnaein’ with collaboration of Indira Gandhi National Centre for the Arts (IGNC), New Delhi; 12<sup>th</sup> - 13<sup>th</sup> April 2018.

**Department of Linguistics** Cowie Claire, University of Edinburgh. UK. Local and Global Trends in the English Accents of International Students. 6<sup>th</sup> March 2019.

**Department of Mathematics**, The 33rd Annual Conference of Ramanujan Mathematical Society, June 1<sup>st</sup> - 3<sup>rd</sup> 2018.

**Department of MIL**, Two Days National Seminar on “Gandhian Thoughts and Indian Literary Culture”, 9<sup>th</sup> – 10<sup>th</sup> March 2019.

**Department of Microbiology**, Dr. Rohit K. Jangra from Department of Microbiology & Immunology, Albert Einstein School of Medicine, New York, USA, Delivered a talk on "Screening for host factors and neutralizing mAbs for respiratory virus infections" 11<sup>th</sup> March 2019.

**Department of Microbiology (MAMC)** organized Workshop on “External Quality Assessment Scheme for HIV Serology” for laboratory technicians of linked ICTCs and PPTCTs, 13<sup>th</sup> March 2019.

**Department of Microbiology (UCMS)** Conducted International Immunology Day, invited guest speaker Dr. Urmi Bajpai “ Phage Therapy” April 2018.

**Department of Microbiology (VPCI)** organized An International Postgraduate Technical Workshop on “Antifungal Resistance in significant human pathogenic Fungi” in collaboration with the European Society of Clinical Microbiology & Infectious Diseases. 19<sup>th</sup> - 21<sup>st</sup> September 2018.

**Department of Microbiology (LHMC)** organized Infection Control & Prevention: Training of Trainers, , 10<sup>th</sup>-11<sup>th</sup> December 2018.

**Department of Music**, The Malhar Utsav 2018 was organised by the Department of Music. An annual two day festival of Indian classical music, organised by the Dept. of Music, on 30<sup>th</sup> – 31<sup>st</sup> August, 2018.

**Department of Obstetrics and Gynaecology (LHMC)** organized Annual conference of AOGD 24<sup>th</sup> November 2018.

**Department of Obstetrics and Gynaecology (MAMC)** organized 21st Practical course and CME in Obstetrics and Gynecology, 7<sup>th</sup> - 9<sup>th</sup> September 2018.

**Department of Obstetrics and Gynaecology (UCMS)** organized ‘CME on Fetal Medicine’ aegis of Society of Fetal Medicine and AOGD 29<sup>th</sup> August 2018.

**Department of Operational Research** Dr. Mukesh Kumar Mehlawat, Organizing Secretary, Seminar-Cum-Workshop on Business Analytics and Research organized by Department of Operational Research, University of Delhi, Delhi, 15<sup>th</sup> February 2019.

**Department of Orthopaedics (MAMC)** organized MAMC Knee & Shoulder Cadaveric Workshop 22<sup>nd</sup> December 2018.

**Department of Otorhinolaryngology (LHMC)** organized 41<sup>st</sup> Annual Conference of the Association of Otolaryngologists of India Delhi Branch, Mar 2019

**Department of Otorhinolaryngology (UCMS)** organized International conference on cancer of larynx and hypopharynx, Chicago Center, New Delhi 21<sup>st</sup> to 22<sup>nd</sup> December 2018.

**Department of Pathology (MAMC)** organized Delhi chapter of Indian Academy of Cytologist workshop on “Cytological Approach to Lymph Node Lesions” for PG students, 23<sup>rd</sup> February 2019.

**Department of Pathology (UCMS)** organized Quarterly Meet of Delhi Chapter Indian Academy of Pathologists & Microbiologists on 25th Aug. 2018.

**Department of Pediatrics (MAMC)** organized 10th World Rare Disease Day on 28<sup>th</sup> February 2019.

**Department of Persian**, Two-day National Seminar on “Urdu aur Farsi Ki Adabi aur Tehzibi Rishtey” on 10<sup>th</sup> - 11<sup>th</sup> May 2018 sponsored by Fakhruddin Ali Ahmad Memorial Committee, Lucknow.

**Department of Pharmacology (MAMC)** organized 4th CME workshop on “Improving Availability and Rational use of Medicines in Public Health Facilities under Government of NCT Delhi”, in MAMC for doctors working in Delhi Government hospitals, 19<sup>th</sup> - 22<sup>nd</sup> Feb 2019.

**Department of Philosophy**, Ozog, T.A. Doshisha University, Kyoto, Japan gave a talk on “Various Forms of Religious Co-existence. European, Japanese and Indian Perspective”, 8<sup>th</sup> February 2019.

**Department of Physics**, International Conference on Nano-Structured Materials and Devices,” University of Delhi, Delhi, India, 17<sup>th</sup> - 20<sup>th</sup> December 2018.

**Department of Psychology**, A National Conference on ‘Ethics in Psychological Research’ sponsored by UGC-SAP (DRS-I) was conducted at Department of Psychology on 16<sup>th</sup> March 2019.

**Department of Physical Education**, “International Conference on Olympics and Indian Values in Global Context” as one of the organizers in collaboration with Ministry of Youth Affairs and Sports and Kirori Mal College, University of Delhi, 25<sup>th</sup> - 27<sup>th</sup> September 2018.

**Department of Physiology (MAMC) Organized** Physiology Update 2018 “Delving into stress response: HTPA axis nutrition & exercise”, 15<sup>th</sup> November 2018.

**Department of Plant Molecular Biology**, Professor Paramjit Khurana organized the “Women in Science & Science for Women’ meeting at NASI, Allahabad, on March 8<sup>th</sup> - 9<sup>th</sup> 2019.

**Department of Political Science**, International Politics and Public Policy, 2<sup>nd</sup> International conference of the India Public Policy Network in collaboration with the Department of Political Science, 5<sup>th</sup> – 6<sup>th</sup> February, 2019.

**Department of Pulmonary Medicine (VPCI)** A workshop on Quality Laboratory Services for laboratory staff was organized by the National Centre of Respiratory Allergy, Asthma and Immunology (NCRAAI), 12<sup>th</sup> April 2018.

**Department of Punjabi** organized Prof. Harbhajan Singh Memorial Lecture on ‘Guru Nanak Dev Ji and Society’ delivered by Dr. Dharam Veer Singh on 28<sup>th</sup> February 2019 in the Departmental Seminar Hall, Department of Punjabi.

**Department of Slavonic and Finno-Ugrian Studies**, Two-day International Conference on "Culture, Language and Identity Formation: Diaspora in Globalizing World" supported by the University of Delhi and the Indian Council for Social Science Research (ICSSR). 27<sup>th</sup>-28<sup>th</sup> February 2019.

**Department of Social Work** in collaboration with the National Association of Professional Social Workers in India (NAPSWI) organized the Sixth Indian Social Work Congress on the theme Human Development and Social Inclusion: Imperatives for Social Work Education and Practice from 1<sup>st</sup> - 3<sup>rd</sup> November, 2018.

**Department of Sociology**, On 7 April, 2018 the Department organized a Workshop on Reading Marx’s Capital.

**Department of Statistics** Professor Debasis Kundu, Department of Mathematics & Statistics, Indian Institute of Technology, Kanpur “Simple Step-Stress Models with a Cure Fraction” on 22<sup>nd</sup> February, 2019.

**Department of Surgery (MAMC)** organized Surgery Update 2018, 24<sup>th</sup> - 29<sup>th</sup> September 2018.

**Department of Surgery (UCMS)** organized A two-day Acute Critical Care Course 2018 for Surgeons, 13<sup>th</sup> - 14<sup>th</sup> August 2018.



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

**Department of Zoology**, organized ISME Ambassador Meet and Workshop on “Hands on to Computational Biology for (Meta) Genomics Analysis” under the aegis of Kalinga Institute of Industrial Technology and International Society for Microbial Ecology (ISME) at KIIT, Bhubaneswar, 3<sup>rd</sup> May 2018.

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### **ACADEMIA INDUSTRY LINKAGE**

The University of Delhi has always promoted the involvement of industry in contributing towards excellence in teaching and research. Several departments have established linkages with the industry as knowledge partners to ensure industry engagement with faculty and students in various ways including summer internships and placement activities, annual scholarships, specialized lectures, mentorship to students, facilitation of start-ups and innovation, research collaborations with faculty and curriculum design and development. Several faculty members of the University also offer Consultancy Services to industry and governmental organizations based on expertise in their fields. The Faculties of Management Studies, Social Sciences, Inter-Disciplinary & Applied Sciences, Commerce, Applied Social Sciences and Humanities, Sciences, Medical Sciences, Cluster Innovation Centre, Institute of Informatics and Communication are examples of some faculties and centres that have established an active interface with industry partners. The University also promotes research activities with the industry by facilitating the creation of appropriate memorandum of understanding between the University and industry partner.

Recently, industry experts participated actively in the syllabus revision of all undergraduate and postgraduate programmes of the University. Several companies visited departments and colleges in the University and offered placements to students pursuing courses in Science, Applied Sciences, Mathematical Sciences, Commerce, Management, Social Sciences, Humanities and Law. Students pursuing various management programmes were actively engaged with industry to acquire knowledge and skills sets required to make them more employable. Industry involvement was also strong in research programmes through undertaking of special purpose projects. Industry experts also delivered lectures and conducted workshops on entrepreneurship and innovation.

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### **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:

- University of Vienna, Austria
- The Graduate School of Science, Osaka University, Japan
- Concordia University, Canada
- Vietnam National University, Hanoi
- Kyushu Institute of Technology, Hanoi
- Tokyo University of Foreign Studies, Japan
- Yunnan University, China
- University of Taipei, Taiwan

- University of Potsdam, Germany
- Tongmyong University, Korea
- Erasmus<sup>+</sup> Agreement, University of Granada, Spain
- Tribhuvan University, Kathmandu, Nepal
- Kazan Federal University, Elabuga, Russia
- University of Naples, Italy
- Martin Luther University Halle - Wittenberg, Germany
- Eotvos Lorand University, Budapest, Hungary
- National Chung Cheng University, Taiwan (Student Exchange Agreement)
- University of Helsinki, Finland
- Moscow City University (MCU), Moscow, Russia

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### SOCIAL OUTREACH

The University of Delhi remains steadfast in its commitment to the idea of evolving as a *University beyond Campus* and a *Campus that is alive to the social critical realities of the times*. The social outreach initiatives of the University exemplify this ongoing commitment. The Departments continued to mobilize multihued initiatives in diverse realms of social outreach. These included initiatives aligned to the national campaigns called for by the government, like the *Swachhata Pakhwada* under the *Swachh Bharat Abhiyan* or voluntary initiatives in the domains of environmental consciousness, digital literacy, health, women's empowerment, urban community development and others. To pay homage to the Pulwama Martyrs, the University of Delhi organized a Blood Donation Camp. It has also been organizing several programmes to commemorate the 150<sup>th</sup> Birth Anniversary Celebration of Mahatma Gandhi. In order to build strong linkages with the community, the University has also adopted the Community College Scheme of the UGC. Under this scheme, neighborhood colleges are designated as Community Colleges with the aim to offer low cost and high quality education locally, that encompasses both skills development as well as traditional coursework, thereby providing opportunities to the learners to move directly to the employment sector or move into higher education.

The University had set up the Community Development Cell four years ago. Under this Cell, five villages – Jagatpur, Jharoda Majara, Mukundpur, Badarpur Khadar and Chauhan Patti – were adopted. Subsequently, work under another important initiative called the Unnat Bharat Abhiyan of the Ministry of Human Resource Development was also initiated in the five villages. Since the genesis of the programme, need based engagements in a “process” mode have been undertaken in each of these villages by teams of students and faculty. 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 teams 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. A bottoms-up approach thus ascertained that the students correctly understood the gaps at the grassroots level and communicated the same to the competent authorities ascertaining effective inter-sectoral convergence for the augmentation of the basic infrastructure related to transport, water, sanitation and health.

In the year under consideration, the main initiatives included: active and innovative village specific work for the Swachhata Pakhwada in the month of October 2018. This work in the context of sanitation and waste management was an important initiative with significant community engagement. Community awareness on hygiene and sanitation was created and consolidated through endeavors with children, youth, women and the

general population. Emphasis was on community participation in monitoring the cleaning of streets and drains, and spraying and fogging in collaboration with the MCD, as also on the dissemination of information with regard to prevention of dengue through the conduction of rallies, interactive sessions and distribution of pamphlets. Installation of dustbins, segregation of degradable and non-degradable waste, regular sweeping and cleaning of the drains in the villages was undertaken. There was a campaign for the provision/maintenance of community toilets.

Work on the provision of sustainable health services continued, using the forum of Mohalla Clinics and mobile van provisioned health services. Health Camps, with excellent community mobilization and participation were held in each of the villages through networking with local health providers. Medicines were also disbursed. There was a concerted move to initiate a Mohalla Clinic in one village community in order to address the health concerns of the residents. Adolescent health was stressed upon and significant stress was given to awareness about menstrual women hygiene through an initiative called the *Sakhi Saheli* programme. In collaboration with Medecins Sans Frontieres /Doctors without Borders, a psychosexual education session was organized with the children of a community. Self defense training sessions were also organized as a joint initiative of Delhi Police and the University. Community residents have been encouraged to access the governmental schemes available for diverse sections of society. On popular demand, Mehendi training programmes were organized for young girls and women in all villages, and these registered immense participation. The students facilitated the establishing of new Anganwadi centre in one village, and organized interactive sessions with the children. They were also the instrumental in the renovation of the M.C.D school building. Initiatives to identify and motivate school drop outs to join back schools were also undertaken with family participation. The students displayed committed engagement with the people and presented their issues to various local bodies.

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### **PLACEMENT ACTIVITIES**

The University has a Central Placement Cell (CPC) to arrange employment opportunities for the students pursuing Under-graduate, Post-graduate and Ph.D. studies in all the constituent Colleges and Departments at the university levels. The Central Placement Cell acts on the advice of the Placement Cell Advisory Committee under Dean Student's Welfare, comprising Deputy Dean Students' Welfare, consultant and placement coordinators from all the colleges and departments.

The academic year 2018-19 was the eleventh year of CPC of its working after the inception in the year 2008. The total number of students registered exceeded 7000 including internship registration. This year a total of 8 companies were short listed which carried out On-Campus Selection Drives at North as well South Campus. More than 1100 students were shortlisted with job offers from different companies like Amazon India, Wipro Technologies, Insight Techhub International, Shahi Exports, ATS Infrastructure. About 750 students finally got employment in various public and private sectors with handsome salary packages. This year showed a significant number of corporate jobs to Post-Graduate & Ph.D. candidates.

Along with the regular CPC activities, this year under Capacity Enhancement Programme, experts from different fields were invited to interact with 1st and 2nd year students for providing them specialized career guidance. These workshops helped the students to interact with professionals to enhance their basic skills viz. CV writing, facing interviews, self-assessment and self-employment. Students from 1st and 2nd year from different colleges were also sent to various companies as interns to have hands-on information and experience.

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### **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, 2018- March, 2019. Some of its salient activities are detailed below:

The EOC provides need-based volunteer support to students with disabilities for academic purposes. This year there was an increase of nearly 12% in such support services from 9400 hours last year to 10526 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.

Availability of material in accessible format is vital for the study of visually impaired students. This year there was an increase of nearly 30% in this support activity—from nearly 700 books, converted into accessible format last year, the number has gone up to nearly 1000 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.

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.

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.

The University of Delhi is a part of an International programme concerning disability, called “Dialogues on Disability”. At present Universities from five countries are participating in this programme. For last few years students and staff with disabilities of the University have obtained international exposure and understanding through this programme. During the year under report, two students and three staff members of the University visited Humboldt University, Berlin, Germany to participate in a one week interaction.

The EOC has also provided logistical support to the Preparatory Committee of the University in its work to make recommendations regarding all aspects of setting up the Centre for Disabilities Studies. The committee has already submitted its report.

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### **RTI Wing**

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

The highlights of the implementation of RTI in the University during the year 2018-19 are laid out below:

- The University conducted a one day workshop on Right to Information Act, 2005 on 19<sup>th</sup> September, 2018. The workshop was attended by around 300 participants. The programme included a comprehensive presentation by Hon’ble Information Commissioner.
- The University participated for the first time in Transparency Audit conducted by Central Information Commission and got a transparency score of almost 90% and was placed in rank ‘B’. This was highest amongst the Central Universities.
- 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 2624 original applications were received, 446 First Appeals were heard and 60 Second Appeal hearings were attended.

## **SPORTS DISTINCTIONS**

Ms. Bhavya Rishi of the University was a part of the contingent of Indian Universities Team for the 8th World University Badminton Championship 2018 at Kaula Lumpur (Malaysia) in October, 2018.

### **All India Inter-University Tournaments**

Fifty Six (56) Gold Medal/s were won by the students of the University in North Zone and All India Inter-University Tournament (Men & Women) in Badminton (Women), Squash Racket (Men), Weightlifting (Men), Chess (Women), Shooting (Men & Women), Judo (Women), Taekwondo (Men), Wrestling (Men), Aquatics (Men & Women), Basketball (Women) and Table Tennis (Women).

Sixty Five (65) Silver Medal/s were won by the students of the University in North Zone and All India Inter-University Tournament in Aquatics (Men & Women), Chess (Men), Football (Women), Shooting (Men & Women), Basketball (Men) and Cycling (Women).

Sixty Three (63) Bronze Medal/s were won by the students of the University in North Zone and All India Inter-University Tournament in Table Tennis (Men), Shooting (Men & Women), Judo (Women), Boxing (Men), Cycling (Women), Yoga (Men), Wrestling (Women), Aquatics (Men & Women), Chess (Men), Tennis (Women), Taekwondo (Women) and Squash Racket (Women).

Team Championship in All India Inter University Tournament 2018-19

- In Diving (Men) and Squash Racket (Men) University team won Gold Medal in Overall Championship in All India Inter University Championship 2018-19.
- In Aquatics (Men & Women) and Judo (Women) University team won Silver Medal in Overall Championship in All India Inter University Championship 2018-19.
- In Chess (Men), Squash Racket (Women) and Table Tennis (Men) University team won Bronze Medal in Overall Championship in All India Inter University Championship 2018-19.

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## GENERAL FACILITIES AND PROGRAMMES

### ALUMNI AFFAIRS

For the first time since the Founding Year 1922, the University saw realization of the highest ever **Alumni - donated Scholarships** of about **Rs 4 crore plus** in 2018 – 2019 as a direct result of the sustained **DU – Alumni Interactive** campaign conducted by Adviser / Dean Sydney R Rebeiro. Alumni donors included Dr Madan Gopal Seth, Ms Mira Seth IAS *Retd*, Prem Singh Rana IAS *Retd* and Dr. Sneha Rana, Dr. I P Mittal and Dr. Ms Ved Mittal, and eminent lawyer Mukul Rohtagi in memory of his father, our alumnus Justice Awadh Behari Rohtagi.

The year began on a memorable high with **Percipience**: The DU Eminent Alumni Lecture Series. Lecture 3 was delivered by alumnus Dr. Bibek Debroy and Lecture 4 was delivered by alumnus Dr Shakti Sinha. To mark **DU Foundation Day** 01 May 2019 Vice Chancellor Professor Yogesh K Tyagi felicitated eminent alumni Chief Justice Gita Mittal High Court of Jammu and Kashmir, Sr Advocate Aman Sinha, Madhup Vyas IAS Secretary Government of Delhi, Ms. Pinky Anand, Additional Solicitor General of India, Dr. Harsha Vardhana Singh Former Deputy DG WTO and Sr. Advocate Ramji Srinivasan, Supreme Court of India.

Dr. Durga Das Agrawal, President CEO Piping Technology and Products and Sushila Agrawal, University of Houston USA, Perminder Singh Chief Commercial Officer *Mediacorp* and Gurmit Singh former MD **Yahoo! India** and Founder and CEO DAUWAU USA, Dr. Gita Gopinath, Chief Economist IMF, Harvard University, USA, Devendra K Jain, Chairman USD 2 billion Inox etc Group and Rashmi Daga, CEO and Founder *Fresh Menu* were among eminent High Achiever alumni attaining new Corporate - professional heights in 2018 - 2019.

We have served **over 4000 Alumni-in-Need** from 29 nations and have enhanced our counselling – guidance services to young and “midstream” alumni in the year under review. Our **DU Alumni Global Database** has crossed **50500 names** from multiple sources with the *Very Eminent Alumni Exclusive ShortList* at a significant 502.

It is a matter of deep pride that DU alumni Judges continue to be elevated to the apex Court of the Land. As many as **9 Judges** of the Supreme Court and over **60 Judges** of High Courts are DU alumni. Their Lordships Justice Hrishikesh Roy and Justice S Ravindra Bhat were elevated to the Supreme Court of India, while recently – retired Justice Madan B Lokur is Chairman India Justice Report 2019 and Non – Resident Judge, the Supreme Court of Fiji, while Justice Dr Arjan K Sikri is Ombudsman, The Indian Federation of Sport Gaming - IFSG, International Judge Singapore International Commercial Court SICC and Chairperson, News Broadcasting Standards Authority / The News Broadcasting Association NBA. In 2018 – 2019, Justice Jyoti Singh, Justice Prateek Jalan, Justice Talwant Singh, Justice Rajnish Bhatnagar and Justice Asha Menon were appointed Judges of the High Court of Delhi, while Justice Pradeep Nandrajog became Chief Justice High Court of Bombay and Justice Ajay Kumar Tripathi is Chief Justice, High Court of Chhattisgarh 2018 - 2019.

DUAA Representatives to 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.

Fresh Membership and Renewal of the statutory DU Alumni Association **DUAA** were carried out within the norms and the Association elected 10 of its Members to the **DU Court**; subsequently, alumni were also elected to the Executive Council, Finance Committee and other official bodies.

Our **network** of Alumni Core Coordinators (Faculty) and Alumni Representatives, *Al Reps* has greatly expanded and covers over 110 Departments, Colleges, SOL and NCWEB.

To further strengthen bonds with Alumni worldwide, our eZine “*L’affaire Alumni*” किस्सा अलम्नाई का edition 7: 2019 has been uploaded and has been themed “*Towards The DU Centenary !*”.

Efforts and plans are underway for a global celebration of the **University Centenary 2020 - 2021 – 2022** and include a significant Alumni leadership role. Alumni related Heritage, Nostalgia and Resource Mobilization projects and programmes were initiated in 2018 – 2019.

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## **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 13637 volumes of books to its collection by purchasing out of maintenance grant. The total collections on 31-03-2019 are 1692736 volumes. DULS currently subscribes to 1174 periodicals. The DULS also has 44231 Theses/Dissertations.

### **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 various software including like Daisy System, Sparsha, OBI, PUTTY, Sigtuna, Jaw, Duxbury, Leap Office etc. There are 1837 audio books, 1928 Braille books, 1793 e-text and 401 books in E-Publishing format etc. Presently 323 members are enrolled in the library. It has circulated 2331 books on CDs and Pen drives. Braille Library is also a member of Suganya Pustakalya under which the user can download the study material in the form of Audio Books or E-text through remote access.

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## **ACTIVITIES IN OTHER MAJOR LIBRARIES**

### **Central Library (Including the Arts Library)**

The Central Library (including the Arts Library) added a collection of 4450 volumes in the last financial year with a membership of 3548 users and the circulation of 48392 books. The library has been providing Plagiarism Checking Services to students and faculty members. 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 to 240 periodicals in print format. The Library sent 617 documents on loan to other Universities and received 211 documents from other organizations as Inter Library Loans. The total collection of theses and dissertations in Central Library, entered during the year are approximately 37689 (23223 theses and 14466 dissertations). A number of visitors from outside Universities like Agra, Banaras, Allahabad, Rohtak, Mahendergrah, Kerala, Karnataka, and Mumbai etc. visited the Library.

### **Central Science Library**

The Central Science Library has been able to add a collection of 1212 volumes in the last financial year with a membership of 2776 users and circulation of 64153 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 213.

### **Ratan Tata Library**

The Library has been able to add a collection of 1156 volumes in the last financial year with a membership of about 1875. 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 approximately 1500 theses and dissertations in its collection. It also acts as a depository of publications by UN and Govt. of India.

### **South Delhi Campus**

The South Delhi Campus Library has been able to add a collection of 1941 volumes in the last financial year with a membership of 1680 users and circulation of about 14860 books. It has 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, and OPAC take 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 16399 books with a membership of 398 users. A large number of visitors from outside Universities also visited the library. In its digital collection, it has 2643 cassettes, 1150 CDs, 104 Talking Books beside 305 Braille Books. As an extension of Audio-Visual Library, it has a Listening Room with 10 CD players where students can listen to the audio material.

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## **SEMINARS / CONFERENCES / WORKSHOPS/ EXHIBITIONS**

### **Dr. Tariq Ashraf (Deputy Librarian SDCL)**

Delivered lectures during the Orientation Programme, 9<sup>th</sup> August, 2018, Department of Business Economics and 16<sup>th</sup> August Department of MFC and Applied Psychology.

Organised Five Day National Workshop on Library Automation & Digitization December 17-21, 2018.

### **Publications by Library Staff**

#### **Dr. Tariq Ashraf**

Smart Libraries: Changes, Challenges Issues & Strategies, New Delhi: Asian Library Association, 2018.

Expanding Digital Footprint: Role of Libraries & Information Centre, New Delhi; Asian Library Association, 2018 P 665.

#### **Dr. Rajesh Singh**

Singh, R., Singh, R. (2018). Acquisition and access of e-books in academic libraries: Some concerns. *Library Herald*, 56(2), 264-271.

Singh, R., Kumar, S. (2018). Assessment of information literacy competency of social science researchers. *Library Herald*, 56(4), 481-491.

Singh, R., Kumar, S. (2018). Information literacy competency of social science researchers in different periods of research: A study. *Journal of Library and Information Science*, 43(1), 123-140.

Singh, R., Kumar, S. (2019). Information literacy competency assessment and mapping in legal research [IN: *Digital Transformation Strategies and Trends in E-Learning: Privacy, Preservation and Policy* edited by Dr. Priya Rai and Dr. Akash Singh, Segment Books, New Delhi, 2019. Pp. 464-476. ISBN-.978-93-81513-14-9.



Singh, R., Kumar, S. (2018). Researchers awareness and satisfaction from university library resources and services: A prerequisite of information literacy competency. *Journal of Indian Library Association*, 54(3), 149-161.

Singh, R., Kumar, S. (2018). Information literacy competency levels of research scholars in *history*. *Assessment and Mapping*, 5(2), 46-54.

Singh, R., Kumar, S. (2019). Information literacy competency level of social science researchers with respect to information use ethics: A study. *DESIDOC Journal of Library & Information Technology*, 39(2), 101-108.

## **Facilities**

**Information Literacy Programme:** DULS regularly conducts Information Literacy Program since 2006 and has organised a total of 163 Information Literacy programs in various departments and colleges of University of Delhi including 133 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.

**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) Centres of the INFLIBNET Centre. DULS is one of the 30 designated ILL Centres 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 them 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 students have been given training in various Libraries during the period.

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## **DELHI UNIVERSITY SOCIAL CENTRE CO-ED SCHOOL**

### **Major Activities and Achievements**

Delhi University Social Centre Co-ed Secondary School is becoming one of the well-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 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 University has also allotted to the School, Quarter C-4 adjacent to the School. Few Primary classes and Nursery Section operate in that building. The School was upgraded from 8<sup>th</sup> to 10<sup>th</sup> 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 are:

Prof. Shobha Bagai (Chairperson)

Mr. Anurag Shokeen (Acting Manager, Secretary/EC Member)

Prof. Namita Ranganathan (Asstt. Manager)

Prof. Devesh Kr. Sinha (Member)

Prof. Anita Sharma (Member)

Dr. Garima Bharti (HOS)

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

Mrs. Neelam Mendiratta (Staff Representative)

Mrs. Vibha Sharma 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, 1 Chowkidar and on Contract: 1 Office Assistant, 1 Library teacher, 2 Nursery Teachers, 1 Nursery Aaya, 1 I.T. assistant, 1 Computer teacher and 2 Safai Karamcharies (Contract or daily wages basis).

**Details of various academic and co – curricular activities undertaken during the academic session 2018–19(1<sup>st</sup> April 2018 to 31<sup>st</sup> March 2019):**

The School has strength of around 600 students. The result of Xth class was 65% whereas the overall pass percentage of Delhi was 70%. Enrollment of students is continuously increasing for the last 5 years but due to shortage of space the School cannot accommodate more students.

The school has celebrated following functions during the session 2017-18: Earth Science Week in April; Independence Day; Annual Day; Children’s Day; Red Cross Day; Sanvidhan diwas from 26 November – 25 January; Republic Day; Bhagat Singh Martyr’s Day.

**Workshops & Seminars conducted:**

The school is a co-ed school with students in the age group of 10 – 15 years. Guidance and counseling workshop were arranged with the help of Dept. of Social Work, Delhi University for the girl child.

Parents were also given counseling for motivating them to send their ward to school regularly and the improving their role in the education of their children.

The school had conducted a mock drill to create an awareness of natural disaster like earthquake among students.

The school had 38rganized a seminar on “Legal Literacy” on ‘Legal Literacy Day’.

Students also participated in Gandhi ji Martyr’s day at “Gandhi Bhavan”.

The school participates in ‘Flower Show’ of Delhi University and received couple of prizes.

The school also participates in various activities of Directorate of Education and other education organizations (like Sports, Yoga, Drawing, and Debate competition etc.) Students are taken for excursion. They also participated in various inter-school activities i.e. sports, yoga, debate & drawing etc. and have also won National Prizes (Taekwondo). Students actively participated in the Zonal Competitions.

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### **DELHI UNIVERSITY SPORTS COUNCIL**

#### **Major Activities and Achievements**

Delhi University Inter College Competitions were conducted in 58 Games / Sports for Men & Women categories followed by Selection Trials and Coaching Camps of University teams for North Zone and All India Inter-University Tournaments for Men & Women Category. University teams participated in 62 Games/Sports in North Zone and All India Inter-University (Men & Women) Tournament 39rganized by Association of Indian Universities.

A total of 638 students (Men & Women) represented the University in North Zone and All India Inter-University Tournaments for the year 2018-19.

#### **Honours/Distinctions**

Ms. Bhavya Rishi of the University was part of the contingent of Indian Universities Team for the 8<sup>th</sup> World University Badminton Championship 2018 at Kaula Lumpur (Malaysia) in October, 2018.

Fifty-Six (56) Gold Medal/s were won by the students of the University in North Zone and All India Inter-University Tournament (Men & Women) in Badminton (Women), Squash Racket (Men), Weightlifting (Men), Chess (Women), Shooting (Men & Women), Judo (Women), Taekwondo (Men), Wrestling (Men), Aquatics (Men & Women), Basketball (Women) and Table Tennis (Women).

Sixty-Five (65) Silver Medal/s were won by students of the University in North Zone and All India Inter-University Tournament in Aquatics (Men & Women), Chess (Men), Football (Women), Shooting (Men & Women), Basketball (Men) and Cycling (Women).

Sixty-Three (63) Bronze Medal/s were won by students of the University in North Zone and All India Inter-University Tournament in Table Tennis (Men), Shooting (Men & Women), Judo (Women), Boxing (Men), Cycling (Women), Yoga (Men), Wrestling (Women), Aquatics (Men & Women), Chess (Men), Tennis (Women), Taekwondo (Women) and Squash Racket (Women).

#### **Team Championship in All India Inter University Tournament 2018-19:**

In Diving (Men) and Squash Racket (Men) University team won Gold Medal in Overall Championship in All India Inter University Championship 2018-19.

In Aquatics (Men & Women) and Judo (Women) University team won Silver Medal in Overall Championship in All India Inter University Championship 2018-19.

In Chess (Men), Squash Racket (Women) and Table Tennis (Men) University team won Bronze Medal in Overall Championship in All India Inter University Championship 2018-19.

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### **DELHI UNIVERSITY WOMEN'S ASSOCIATION**

#### **Major Activities and Achievements**

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 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 nutritious food. 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 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 Centre:** Promoting the wellness of women students at Delhi University is a prime objective of this centre 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 centre. In addition to free consultation, the practice of yoga and acupressure techniques is also used at the centre.

**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.

### **All Activities**

Orientation Programme with parents of DDB & UGSV school was celebrated on 13.4.18.

Summer camp was organised from 15.5.18 to 15.6.18. Approximately 50 children participated and learned many activities.

The School children participated in the Play competition on Gandhi on 21.8.18 at Gandhi Bhawan, Conference Centre, University of Delhi.

The DDB & UGSV Schools celebrated the following functions during the year 2018-19: Teacher's day; Gandhi Jayanti; Dussehra; Children's day; Eid; International Women's day; Graduation day; Fun day and Holi.

A cheque of Rupees One Lakh was donated by Delhi University Women's Association to the Chief Minister Distress Relief Fund on 1.10.18 for the flood crises in Kerala.

DUWA had received Mahila Panchayat Project on November 2017 by Delhi Commission for Women. Salary cheque have been distributed to all the staff of Mahila Panchayat Project and remaining amount was returned to the Delhi Commission for Women.

Many Boards were installed in DUWA: 1 Sign boards, 2 MBC Boards, 1 Hostel Notice Board, 1 School Board, 1 Vaatsalya & SS Board in October 2018.

Diwali Mela was organised on 22.10.18. Around 70 stalls with many NGOs of Delhi were put up, Registrar Prof. Tarun Das was the Chief Guest.

Wall painting competition celebrating 150<sup>th</sup> Birth Anniversary of Rashtrapita Mahatma Gandhi was organised by Delhi University. DUWA got consolation prize on 26.10.18.

NAAC team visited on DUWA 30.10.18. Presentation was given by our Office Bearers and they appreciated different activities of DUWA and recommended to initiate activities for senior citizens in our institution.

EC election was held on 1<sup>st</sup> March 2019 for the post of President, Secretary, Treasurer and nine EC members.

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### **DIRECTORATE OF HINDI MEDIUM IMPLEMENTATION**

Year 2018-19 has a special importance because in this year, about 130 standard books published from the Directorate of Hindi Medium Implementation were displayed at 11<sup>th</sup> Vishva Hindi Sammelan (which was organised jointly by the Ministry of External Affairs, Govt. of India and the Mauritius Government at Mauritius). After the Sammelan, these books were gifted to the Vishav, Hindi Sachivalya at Mauritius (inaugurated by the honourable President of India, so that the students and visitors visiting the Sachivalya library may be benefited. Officiating Director at the DHMI was invited at the Vishav Hindi Sammelan as official delegate and she conducted the programme from inaugural to the final session.

Directorate also participated in the New Delhi World Book Fair from 5<sup>th</sup> Jan. to 14<sup>th</sup> Jan. 2019. There is huge demand for the books published from the Directorate at this fair.

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### **FOREIGN STUDENTS REGISTRY**

The international student community continued to show its interest in seeking admission to various programmes offered by the University of Delhi for the academic year 2018-2019. The office of foreign students received 2070 applications including 700 applications of ICCR scholarship holders. In total 435 students from 74 different countries were admitted to the first year of various programmes ranging from certificate courses to Ph.D. Programme of the University of Delhi, during the academic session 2018-2019.

The office of Foreign Students Registry maintained close links with enrolled students, residential hostels, Embassies, Colleges, Departments, and Institutions to ensure that international students did not face any

problems pertaining to their academics. The various best practices of Foreign Students' Registry include - 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; 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 counselling; Transparency: The Data of enrolled students Year/College/Course/Country wise is shared online in a user-friendly manner; Appointment of Nodal Officers: A Teacher has been designated as Nodal Officer for foreign Students for the benefit of foreign student already enrolled and those seeking admission in Colleges/ Departments. The FSR actively interacted with the Nodal officer to facilitate admissions and other activities of the students through periodic meetings and other modes of communication; Interactions with various Foreign Students' Association in the university.

#### **Actions Taken by Foreign Students' Registry:**

The various actions taken by Foreign Students' Registry include - Counseling for 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 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.

To enable greater cultural exchange among foreign nationals as well as with Indian students, and also with a purpose to provide a forum for breaking barriers among Foreign nationals, the FSR organised 'International Students' Fair 2018-19' on March 11, 2019 at the Conference Centre, North Campus. Shri Akhilesh Mishra, Director General, ICCR graced the occasion as the Chief Guest. A large number of diplomats from various embassies in New Delhi were also present. The event provided an opportunity for interaction among foreign nationals in the University and among the diplomats and the students.

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### **GANDHI BHAWAN**

#### **Major Activities and Achievements**

On 7 April 2018, a lecture by Prof. Ramesh C. Bharadwaj, Director, Gandhi Bhawan, was organised. On 30 April 2018, a seminar on 'Lord Buddha and His Message of Equality in Indian Literature' was organized. On 21 June 2018, the International Yoga Day was celebrated. Prof. Yogesh Kumar Tyagi, Hon'ble Vice Chancellor, University of Delhi was the chief guest on this occasion. On 21 May 2018, Anti-Terrorism Day was celebrated. On 5 June 2019, the World Environment Day was celebrated. On this very day, the Plastic-free Campus campaign was started. A 10-day Summer School on 'India of My Dreams' – A legendary book by M. K. Gandhi was organised from 9 July - 19 July 2018. A Rally/ March on 'Plastic-free Campus was also organised on the same day. A Naatak Pratiyogita on Mahatma Gandhi was organised on 23 August 2018 under the auspices of 'Plays on Gandhi' as desired by the Ministry of Human Resource Development (MHRD), Government of India. A seminar on 'Success without Stress' was organised on 24 August 2018. A two-day national seminar on 'Gandhian Philosophy of Non-violence' was organised. A Photo-Exhibition on Mahatma Gandhi was organised on Gandhi Jayanti -2 October 2018, Prof. Yogesh Kumar Tyagi, Hon'ble Vice Chancellor, University of Delhi inaugurated the Photo Exhibition on Mahatma Gandhi. A musical tribute to Mahatma was also organised on this day. A Swachhata Abhiyaan was also organised prior to the Non-violence day programme. A lecture on Communal Harmony' was delivered by Dr. Bharat Jhunjhunwala with reference to his book 'Common Prophets of the Jews, Christians, Muslims and Hindus' on 9<sup>th</sup> October 2018. A two-day National seminar on 'Gandhi's Vision for National Language' was organised on 23 & 24 October 2018 in collaboration with the National Council for Promotion of Urdu

Language (NCPUL), New Delhi, Govt. of India at Gandhi Bhawan. A two-day Seminar on the occasion of 134<sup>th</sup> birth anniversary of Kakasaheb Kalelkar on 'People to People Communication: A Gandhian Perspective' was jointly organised by Acharya Kakasaheb Kalelkar Smarak Nidhi, Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi and Gandhi Bhawan, University of Delhi on 1<sup>st</sup> & 2<sup>nd</sup> December 2018. A Winter School on the theme, 'The Making of Individual and Society' was organised from 21 – 30 January 2019. On Martyr's Day - 30 January 2019, a programme was organised to pay homage to Mahatma Gandhi. A Gandhi Week celebration was organised from 30 January to 5 February 2019. On 21 February 2019, the Mother Tongue Day was organised. It included, a dialogue on 'Matribhasha Divas' and an Elocution Competition was organised on 20 February 2019 on the theme, 'Matribhasha ka Mahatva' for School as well as College students. On the same day, a 'Sarvbhasha Yuva Kavi-Sammelan' was also organised. On the directions of the Hon'ble Vice Chancellor sir, a presentation of bhajans on first Sunday of each month was organised at Gandhi Bhawan w.e.f. February 2019 and going on as per schedule. A Seminar on 'Gandhi in World Literature' on 12 March 2019 to sensitize the University fraternity, especially the youth about Mahatma Gandhi – his life and his philosophy was organised.

### **Gandhi Study Circle Colleges – Programmes Conducted**

Apart from the above mentioned activities/programmes, various colleges under the aegis of Gandhi Study Circle have also conducted various action-oriented events/programmes at their colleges to imbibe Gandhian values among students/youth. The following are the colleges who organised events/programmes on Gandhian values: Ram Lal Anand College, Shyamlal College; Satyawati College; Swami Shraddhanand College; Janki Devi Memorial College; Zakir Husain Delhi College; Zakir Husain Delhi Evening College.

### **Facilities:**

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

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

### **Other Significant Information:**

Prof. Ramesh C. Bhardwaj

On 22.2.2019, delivered a lecture on 'Gandhiji and Bharatiya Vidya Bhawan', organised by Bharatiya Vidya Bhawan, New Delhi.

On 11.3.2019, delivered a lecture at National Seminar on 'Hindhi bhasha aur Sahitya par Mahatma Gandhi ka prabhav', organised by Department of Hindi, Aligarh Muslim University.

On 16.3.2019, delivered a Special Lecture on 'Bhartiya Gyanparamparake Puraskarta', organised by Bharatiya Adhyayan Kendra, Kashi Hindu Vishwavidyalaya (BHU).

On 26.3.2019, delivered a lecture on 'Gandhiji ka Bhasha Chintan', organised by Sangeet Natak Academy, GoI, New Delhi.

### **Courses conducted by Gandhi Bhawan**

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

Charkha/ Spinning Training Certificate Course – Three months.

Khadi (handloom) Training Certificate Course – Three months.

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## GARDEN COMMITTEE

### Major Activities and Achievements

#### **Varsha Vriksharopan 2018: plantation of trees/shrubs/herbs/hedge plants at various sites of North campus and colleges of the University of Delhi**

A series of native tree-planting events to enhance and rejuvenate green spaces was launched under patronage of the Vice Chancellor, University of Delhi, on 15<sup>th</sup> August 2018. At least 2000 saplings of native and established tree species of Delhi (representing 26 taxonomic families) were planted near buildings of the Faculties of Mathematics; Social Sciences; Music; Arts and Sciences. Saplings were gifted to the Garden committee by alumni from Tata Power-DDL Ltd., as well as Government nurseries. Saplings raised by 'malis' of the University garden committee were also used.

#### **Plantation of native tree species at various colleges of the University of Delhi**

Various colleges of the University participated in *Varsha Vriksharopan* 2018 drive with tree species like 'Kadamba' (*Neolamarckia cadamba*), 'Shahtoot' (*Morus nigra*), 'Amaltas' (*Cassia fistula*), 'Kachnar' (*Bauhinia variegata*) and 'Jacaranda' (*Jacaranda mimosifolia*). Students of college eco-clubs and teachers of Acharya Narendra Dev College, Dr. Bhim Rao Ambedkar College, Janaki Devi Memorial College, Kalindi College, Lady Shri Ram College, Shivaji College, Shri Guru Teg Bahadur Khalsa College and Sri Venkateswara College were at the fore-front of tree-planting events.

#### **Development/renovation and maintenance of new Lawns and Gardens**

Renovation of one part of lawn in front of DUTA Office for an area of about 173.68 sqm.

Renovation of 5 small lawns at the Department of Environmental Studies for an area of about 708.82 sqm.

Renovation of one lawn on inner side of the Department of Anthropology for an area of about 156.25 sqm.

Renovation of four small lawns on the inner side of the Department of Physics & Astrophysics for an area of about 859 sqm.

Renovation of one small lawn near IQAC office for an area about 36 sqm.

Renovation of small patch of lawn near PVC Office for an area of about 12 sqm.

New Development of lawn near Mathematics Ext. Building for an area of about 367.46 sqm.

#### **Honors/ Awards**

The Garden Committee has received the following awards:

First Prize Col. A.S. Berar Rolling Trophy for "Best Residential Garden" in Flower Show 2019 organised by Indraprastha Horticulture Society.

First Prize, Arun Kumar Rolling Shield for "Best official Garden" in Flower Show 2019 organised by Indraprastha Horticulture Society.

First Prize, Pushpanjali Welfare Association Challenge Rolling Trophy for "Best Institutional Garden" in Flower Show 2019 organised by Indraprastha Horticulture Society.

#### **Facilities**

The 'malis' and staff of the University Garden Committee provided support in Decoration and Flower arrangements for 82 events/programs such as Foundation Day, Convocation Day, Alumni meets of University, International and national seminars, lecture series, orientation and refresher courses organised by various offices and Departments of the University during the period of 1/4/2018 to 31/3/2019.



A website was launched to apprise stakeholders of activities of the University Garden Committee. Designed by student volunteers, the site includes an on-line requisition form and is available at <http://www.universitygardens.du.ac.in>.

### **Other significant Information**

#### **61<sup>st</sup> Annual Flower Show – 2019**

The 61<sup>st</sup> Annual Flower Show was held on Friday 1<sup>st</sup> March 2019 at the Mughal Garden. Participants from 26 colleges, 14 hostels, institutions, and schools from Delhi-NCR participated. Around 7000 footfalls including children and senior citizens enjoyed the floral displays and fête. The event was inaugurated by the Pro Vice-Chancellor and the Registrar of the University. Prizes including 72 rolling shields and cups were awarded. Popular stalls included educational exhibits on the Bio-diversity parks of Delhi; forest conservation: productivity and livelihood, as well as herbal and medicinal plants. A photography competition was also organised at Flower Show Venue. Over 60 persons participated in the Photography Competition. A new and popular display was hosted by the Horticulture unit, Department of Environment, Govt. of Delhi. Some noteworthy plants appreciated by visitors were tulips, exotic large and mini dahlias, bonsais, bulbous plants, cacti and succulents.

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### **INTERNATIONAL GUEST HOUSE**

#### **Major Activities and Achievements**

Catering Arrangements: Special catering arrangements were provided to three hundred thirty-nine bookings including Lunch/Dinner/High-Tea/Conferences/Meetings/Seminars during the said period.

Rooms Accommodations: During the period one thousand four hundred sixty-five rooms were provided for accommodation and foods. Most of the guests at IGH were foreigners and all the guests were satisfied by the services/food/behavior of the staff of IGH.

Facilities: Procurement of Twelve Oil Filled Room Heaters, Twenty Telephone Sets, Eighteen Mattresses, One Refrigerator, One Deep Freezer, thirty-six bed sheets, twelve blankets & twelve quilts through GeM.

Other Significant Information: White-wash of six guest rooms, Installation of granite almirah in 6 rooms & Replacement of sanitary fittings in 8 rooms by the Engineering Department.

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### **NATIONAL CADET CORPS**

#### **Major Activities and Achievements**

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 Foundation day, University Convocation, Ambassador Lecture Series, Alumni Lecture Series, Road Safety Programme, Shaurya Diwas, Blood Donation Camps etc.

NCC cadets also actively participated in Swachh Bharat Abhiyaan, Ekta Diwas, Basic Leadership Camp, Army Attachment Camp, Combined Annual Training Camp, Vayu Sainik Camp, Sthal 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.

## NATIONAL SERVICE SCHEME

### Major Activities and Achievements

A variety of Activities were organised under the aegis of NSS Centre by the volunteers of 63 College Units in the session 2018-2019. Some of them are listed below.

**Swachh Bharat Summer Internship, 1 May 2018- 31 July 2018:** 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 2018:** 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 150 NSS volunteers from various colleges participated in the event.

**SVEEP College Campus Ambassador, August 2018:** Appointment of SVEEP (Systematic Voters Education and Electoral Participation) College Campus Ambassadors, volunteers from each college were nominated as SCCA to coordinate programmes/activities related to the Election Commission of India during 2018-2019 in coordination with the Chief Election Office, Delhi and the NSS Centre, University of Delhi.

**Swachhta Pakhwara, 1 August to 15 August 2018:** NSS units under the ambit of NSS centre observed Swachhta Pakhwara from 1 August - 15 August 2018. NSS units took an oath for the cause of Clean India. Awareness about cleanliness was spread by the volunteers in adopted slums. Cleanliness drive was conducted in colleges and volunteers were made responsible towards social service.

**Relief Action for Kerala flood victims, August 2018:** NSS Volunteers from various colleges of the University of Delhi were involved in collection of relief material for flood victims of Kerala. NSS units coordinated with Kerala House in Delhi for relief actions.

**Orientation of Programme Officers, NSS: 20 September 2018:** NSS Centre organised Orientation cum Interaction session with Programme Officers, NSS at Satyakam Bhawan Auditorium on 20 September 2018. Director, NSS and Regional Director, NSS interacted with the Programme Officers. Best Programme Officer, University of Delhi NSS Award for the sessions 2016-2017 and 2017-2018 was conferred to Dr. Sarita Sharma, Kamala Nehru College and Dr. Sangeeta Sharma, Lakshmibai College respectively.

**Adventure Camp, 12 September to 21 September 2018:** Adventure Camp was organised by Ministry of Youth Affairs and Sports at Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports, Water Sports Centre Pong Dam. Twenty NSS Volunteers with two Programme Officers attended the Camp and actively participated in the Camp activities.

**Celebration of NSS Day, 24 September 2018:** NSS Day was celebrated with the theme “Swachhta Hi Sewa” by launching cleanliness drive from 15 September to 2 October 2018. Awareness Campaign, Door to Door meetings, NukkarNataks and Wall Paintings were made by NSS Volunteers.

**Observance of Surgical Strike Day, 29 September 2018:** In order to commemorate and salute the bravery of soldiers, NSS volunteers contributed poems and write-ups on the topic Surgical Strike.

**Rastriya Ekta Diwas, 31 October 2018:** On the occasion of the Birth Anniversary of Sardar Vallabhai Patel, Rastriya Ekta Diwas was celebrated by the NSS units on October 31<sup>st</sup> 2018. As part of the celebration NSS units conducted various activities like Pledge on Rashtriya Ekta, Unity Run and Street Play on “Unity”.

**Republic Day Parade Camp, 1 January to 31 January 2019:** In the Republic Day Parade Camp organised at International Youth Hostel, Nyaya Marg, Chanakyapuri two NSS volunteers from University of Delhi Ms. Riya Kumari from Lakshmibai College and Vivek Anand from Dyal Singh College were part of NSS Contingent at Republic Day Parade 2019.

**National Voters Day, 25 January 2019:** In order to strengthen the Democratic norms in the volunteers, National Voters Day was celebrated on 25 January 2019. A pledge was taken by the volunteers to uphold the spirit of democratic tradition and for ethical electoral participation.

**National Road Safety Walkathon, 4 February 2019:** Delhi Traffic Police has organised a Walkathon at India Gate as the inaugural of Road Safety Week 2019 which was flagged off by the Commissioner of police, Delhi. Two hundred NSS Volunteers participated in the programme and promoted the Road Safety message among the people of Delhi.

**National Youth Parliament Festival, 27 February 2019:** NSS Volunteers of various colleges of University of Delhi who participated in the District Youth Parliament were invited by the Ministry of Youth Affairs and Sports as visitors for National Youth Parliament Festival held at Vigyan Bhawan New Delhi.

**Participation in DU Activities/Functions:** 95 Annual Convocation; Pariksha pe Charcha Pariksha Ki Baat PM ke Sath; Blood Donation Camp: Pays homage to Pulwama Martyrs; Percipience- The Eminent Alumni Lecture Series; Percipience DU Eminent Alumni Lecture; Distinguished Lecture Series; Commemoration of Martyrs Day.

### **Honours/Distinctions**

The following Honours have been awarded to Capt. Parminder Sehgal Programme Coordinator, NSS University of Delhi:

Felicitated by District Magistrate (South-West) for outstanding contribution in Voter Awareness Programme of the Chief Election Office, Delhi. Women Empowerment Award on the occasion of Women's Day by Bhagidari Jan Sehyog Samiti for promoting women safety campaign through NSS Units of the University of Delhi.

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## **NON-COLLEGIATE WOMEN'S EDUCATION BOARD**

### **Major Activities and Achievements**

NCWEB was established in September 1944 under DU Act 1943. The board facilitates the students to take part in some examinations without attending regular classes. NCWEB has emerged as an important academic option for female students. The Board had started with three students and at present is catering to the need of approx. 29821 students. They are studying UG courses in 26 DU 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 the Tutorial Building, Arts Faculty. There are 18702 students in B.A. (Part I, II and III), 11119 in B. Com (Part I, II & III) and 863 in PG course Part I & II).

The students had been given chance to participate in debate, question answer, creative writing competition in their respective teaching centres within fifty days of short teaching span of NCWEB teaching. Cultural activities are also encouraged. NCWEB e-magazine is updated every year and comprises various articles and creative writings from 26 teaching centres.

Pass percentage of UG courses are as under:

Course	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
B.A.(Prog.)	83.8%	87.5%	85.2%
B.Com.	77.7%	85.00%	79%

The board facilitated the UG students of 26 teaching centres, among these, students secured first 3 positions in the year 2018-19 in B.A. (Prog.)/B.Com.

Around 2027 books (free of cost) had been provided to the students during this year.

Financial aid of Rs. 3000/- was provided to 631 needy and deserving students during the year 2018-19.

UNDP Disha supported a project called “Bride to Livelihoods” wherein, with support from National Skill Development Corporation Apprenticeship Division and UNDP Disha interacted throughout the session with more than 403 faculties and 2444 students. The purpose of the programme was to provide a platform to the students through graduation to carry-on with their work, passion and skill enhancement while studying.

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

**Teaching Centres of NCWEB:**

1. Aditi Mahavidyalaya
2. Aryabhatta College
3. Bhagini Nivedita College
4. Bharati College
5. College of Vocational Studies
6. Dr. Bhim Rao Ambedkar College
7. Deen Dayal Upadhyay College
8. Hansraj College
9. Janaki Devi Memorial College
10. Jesus & Mary College
11. Kalindi College
12. Keshav Mahavidyalaya
13. Lakshmibai College
14. Maharaja Agrasen College
15. Maitreyi College
16. Mata Sundri College
17. Miranda House
18. Moti Lal Nehru College
19. PGDAV College
20. Rajdhani College
21. Ramanujan College
22. Satyawati College
23. Sri Aurobindo College
24. SGGSC Of Commerce
25. SPM College
26. Vivekananda College
27. PG Teaching Centre

## STUDENTS' WELFARE OFFICE

### Major Activities and Achievements

The admission process for academic session 2018-19 has following activities:

#### Counseling Activities (2018-19)

**Open Days:** Open days were conducted at Conference Centre, North Campus (Open days are counseling sessions conducted to guide aspiring candidates and their parents regarding process of admission in University of Delhi). These were organised one month before the admission process begins at University of Delhi. Altogether, more than 50,000 admission aspirants and parents attended these sessions. Feedback was also collected from the aspiring candidates and their parents and they showed a very positive response with high degree of enthusiasm and satisfaction after attending the open days. For the first time Open Days were also conducted for M.Phil./Ph.D. candidates as well for updating them with latest rules and regulations and the process of selection.

**Transition:** Counselling sessions were conducted for the teachers from different schools of Delhi. The basic premise to conduct these sessions was to guide the teachers regarding the admission process in University of Delhi. The entire process of admission was explained to them so that they could extend the necessary guidance to their students in respective schools.

**Help Desk:** Student Help Desk for undergraduate admissions was set up at the Dean Student's Welfare Office, Conference Centre from 9.30 to 5.30 pm. This step was initiated to assist and guide the aspiring students about the admission process. The Help Desk operated for more than a month from the Conference Centre. The information related to admission was also provided through email and telephone by the same volunteers who were handling the Help Desk.

#### Admission Activities

**Undergraduate Admissions:** The Dean of Student's Welfare office along with OSD Admissions office looked after the admission process and was involved in preparation of the University Information Bulletin for Admission to all categories (Gen/OBC/SC/ST/PwD) and the data analysis. Students of all categories Gen/SC/ST/OBC were allowed to register through an online registration form. The bulletin of information was made available free online for all categories of candidates. The PwD candidates were provided separate additional facilities related to their admissions. In order to address the grievances of the candidates belonging to SC/ST/OBC and PwD category, relating to admissions, a committee was set up by Dean Students' Welfare. The cancellation of admission by the student and adjustment of fee after cancellation was made student centric and helped student immensely in making admission process smooth.

**Post graduate Admission:** The postgraduate admission process which includes registration and publishing of merit list, were only in the online format. This year registrations to the PG Hostels were also made centralized.

#### Central Placement Cell

Central Placement Cell builds liaison with business leaders and senior managers in reputed companies. The Central Placement Cell acts on the advice of the Placement Cell Advisory Committee under Dean Student's Welfare, comprising of Deputy Dean Student's welfare, consultant and placement coordinators from all the colleges and departments. The advisory committee monitors and guides the functioning of the Placement Cell. Different Capacity Enhancement Programmes were also organised for students to develop their leadership skills. This year a sizable number of registered students with Central Placement Cell got job offers from the companies including Amazon India, Wipro Technologies, Insight Techhub International, Shahi Exports, ATS Infrastructure

**Central Placement Cell Activities:** The University has a Central Placement Cell (CPC) to arrange employment opportunities for the students pursuing Under-graduate, Post-graduate and Ph.D. studies in all

the constituent Colleges and Departments at the university levels. The academic year 2018-19 was the eleventh year of CPC after its inception in the year 2008. The total number of students registered exceeded 7000 including internship registration. This year a total of 8 companies were short listed which carried out ON-Campus Selection Drives at North as well as South Campus. More than 1100 students were shortlisted with job offers from different companies and 750 students finally got employment in various public and private sectors with handsome salary packages. This year showed a significant number of corporate jobs to Post-Graduate and Ph.D. candidates. Along with the regular CPC activities, this year under Capacity Enhancement Programme, experts from different fields were invited to interact with 1<sup>st</sup> and 2<sup>nd</sup> year students for providing them specialized career guidance. These workshops helped our students to interact with professionals to enhance their basic skills viz CV writing, facing interviews, self-assessment and self-employment. This year two such capacity enhancement programmes were conducted by DSW office.

**Internship Programmes:** Students from 1<sup>st</sup> and 2<sup>nd</sup> year from different colleges were sent to various companies as interns to have hands on information and experience with companies. For this purpose, different companies were invited to register with CPC for internship.

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## UNIVERSITY GUEST HOUSE

### Major Activities and Achievements

The University Guest House is located near Gate No. 01 of the University. The Guest House caters to the needs of major academic meetings. A number of examiners and visiting faculty members are provided hospitality.

### Facilities

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 also has a clean and spacious dining hall with a seating capacity for 35-40 persons. It has a Lounge with microphone and projector facilities with a sitting capacity for 70-80 persons. It also has a small committee room for meetings for around 10-12 persons.

### Other Significant Information

The University Guest House provides 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.

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## ACADEMIC CENTRES

### AGRICULTURAL ECONOMICS RESEARCH CENTRE

#### Major Activities and Achievements

AERC, Delhi continued the progress in research work in 2018-19. There have been contributions in the form of journal publications, presentations in conferences, research reports, and inputs to high level committees by the faculty.

#### Research Studies for the Ministry of Agriculture & Farmers Welfare, Government of India

#### Research Studies – completed

C.S.C. Sekhar and Yogesh Bhatt (2018), Ministry of Agriculture & Farmers, Welfare, Electronic National Agricultural Market (e-NAM): A Review of Performance and Prospects in Haryana, 2017-2018.

### **Research Studies– ongoing**

- Harvesting and Transportation costs of sugarcane for Commission for Agricultural Costs and Prices (CACP), GoI.
- Study on the functioning of the Direct Benefit Transfer (DBT) at retail points.
- 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 Skill Gap for different Agro-Climatic Zones – The study attempts to analyze the skill requirements of various stakeholders in agricultural mechanization.
- Assessment of Feed and Fodder in all states/UTs – The study attempts to generate reliable estimates of feed and fodder availability in different states.

### **Seminar/Conference Presentations**

C. S. C. Sekhar

Delivered Rajaratnam Endowment Lecture for 2018-19, “Improving Farmers Income: Policy Options and Challenges”, University of Madras, March 6, 2019.

Delivered lectures on “Food Inflation in India”, Refresher Course in Business Management, Economics and Commerce for the University and College teachers, Centre for Professional Development in Higher Education, University of Delhi, September 27, 2018.

Delivered Keynote Address at the National Seminar, “Green Revolution and Agricultural Sustainability in India: Issues and Challenges”, Ravenshaw University, Cuttack, Odisha, February 23-24, 2019.

Presented paper at Annual Conference in Economics, “Transitioning to Middle Income: Challenges and Pathways for India”, Indian Institute of Technology, Delhi, New Delhi, February 21-22, 2019.

Panel Discussion at “National Conference on Transforming Rural India 2030: Strategies for Sustainable Development Goals”, Symbiosis School of Economics & International Business, Pune, January 18, 2019.

Presented a paper “Whither Agricultural Price Policy in India?” at the National Conference on Agro-Economic Research 2019, Centre for Management in Agriculture, Indian Institute of Management, Ahmedabad, January 10-11, 2019 (Also chaired two sessions).

Presented paper “Food Inflation and volatility in India – Implications for nutrition vulnerability”, Second International NIN Centenary Conference, Aligning Food Systems for Healthy Diets and Improved Nutrition, National Institute of Nutrition, Hyderabad, November 11-13, 2018.

Presented a paper on “Agricultural Price Policy”, at the International Conference on Inclusive Development: Issues and Challenges, in honour of Professor R. Radha Krishna, Centre for Economic and Social Studies, Hyderabad, October 8-10, 2018.

Chaired a session in the International Workshop Land use and land cover change and its impact on ecosystem and sustainable development in the High Asia, IEG, India, March 18, 2019.

Yogesh Bhatt

“Electronic National Agricultural Market (e-NAM): A Review of Performance and Prospects in Haryana”, National Conference on Agro-Economic Policy & Research, Indian Institute of Management, Ahmedabad, on January 10-11, 2019.

## Articles in the Media

C.S.C. Sekhar

“PM-KISAN, too little too late”, Financial Express, February 20, 2019.

“Whither agricultural price and procurement policy?” Financial Express, July 10, 2018.

C.S.C. Sekhar (with Raushan Kumar) “Integration of Spot and Futures – Challenges and Way Forward” in Commodity Insights Yearbook 2018, MCX (Multi Commodity Exchange of India).

## Faculty Strength

01(full time) + Honorary Director

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## 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.

### Publications

Albert M Sirunyan et al. (2019). Measurements of the pp  $\rightarrow$  WZ inclusive and differential production cross section and constraints on charged anomalous triple gauge couplings at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1904, 122.

Priyanka et al. (2019). Single-Top Quark Production at CMS. *Universe* 5 no.1, 19.

Albert M Sirunyan et al. (2019). Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1903, 141.

Albert M Sirunyan et al. (2019). Search for the pair production of light top squarks in the  $e^+e^- \rightarrow \mu^+\mu^-$  final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1903, 101.

Albert M Sirunyan et al. (2019). Measurements of the Higgs boson width and anomalous  $SHVV$  couplings from on-shell and off-shell production in the four-lepton final state. *Physics Review*, D99 no.11, 112003.

Albert M Sirunyan et al. (2019). Measurement of the top quark mass in the all-jets final state at  $\sqrt{s} = 13$  TeV and combination with the lepton+jets channel. *The European Physical Journal*, C79 no.4, 313.

Albert M Sirunyan et al. (2019). Measurement of the  $\overline{\text{t}}\text{t}$  production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at  $\sqrt{s} = 13$  TeV. *The European Physical Journal*, C79 no.5, 368.

Albert M Sirunyan et al. (2019). Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1904, 114.

Albert M Sirunyan et al. (2019). Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *The European Physical Journal*, C79 no.4, 364.



Albert M Sirunyan et al. (2019). Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton+jets final state in pp collisions at  $\sqrt{s} = 13$  TeV. *The European Physical Journal, C79 no.3*, 208.

Albert M Sirunyan et al. (2019). Measurement and interpretation of differential cross sections for Higgs boson production at  $\sqrt{s} = 13$  TeV. *Physics Letters, B792*, 369-396.

Albert M Sirunyan et al. (2019). Inclusive search for super symmetry in pp collisions at  $\sqrt{s} = 13$  TeV using razor variables and boosted object identification in zero and one lepton final states. *Journal of High Energy Physics, 1903*, 031.

Albert M Sirunyan et al. (2019). Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at  $\sqrt{s} = 13$  TeV. *Physics Review Letters, 122 no.13*, 132003.

Albert M Sirunyan et al. (2019). Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *The European Physical Journal, C79 no.5*, 391.

Albert M Sirunyan et al. (2019). Search for super symmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics, 1901*, 154.

Albert M Sirunyan et al. (2019). Measurement of inclusive very forward jet cross sections in proton-lead collisions at  $\sqrt{s_{\mathrm{NN}}} = 5.02$  TeV. *Journal of High Energy Physics, 1905*, 043.

Albert M Sirunyan et al. (2019). Measurement of associated production of a W boson and a charm quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *The European Physical Journal, C79 no.3*, 269.

Albert M Sirunyan et al. (2019). Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV. *The European Physical Journal, B795*, 76-99.

Albert M Sirunyan et al. (2019). Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *The European Physical Journal, C79 no.4*, 305.

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Albert M Sirunyan et al. (2019). Search for long-lived particles decaying into displaced jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Physics Review, D99 no.3*, 032011.

Albert M Sirunyan et al. (2019). Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. *Journal of High Energy Physics, 1903*, 127.

Albert M Sirunyan et al. (2019). Measurements of  $\overline{t}$  differential cross sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV using events containing two leptons. *Journal of High Energy Physics, 1902*, 149.

Albert M Sirunyan et al. (2019). Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *The European Physical Journal, C79 no.3*, 280.

Albert M Sirunyan et al. (2019). Search for excited leptons in  $\ell\ell\gamma$  final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1904, 015.

Albert M Sirunyan et al. (2019). Search for pair production of first-generation scalar leptoquarks at  $\sqrt{s} = 13$  TeV. *Physics Review*, D99 no.5, 052002.

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Albert M Sirunyan et al. (2019). Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Physics Review*, D99 no.1, 012005.

Albert M Sirunyan et al. (2019). Search for rare decays of Z and Higgs bosons to  $J/\psi$  and a photon in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *The European Physical Journal*, C79 no.2, 94.

Albert M Sirunyan et al. (2019). Search for new particles decaying to a jet and an emerging jet. *Journal of High Energy Physics*, 1902, 179.

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Albert M Sirunyan et al. (2019). Search for resonant  $\overline{t}t$  production in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1904, 031.

Albert M Sirunyan et al. (2019). Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1903, 082.

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Albert M Sirunyan et al. (2019). Measurement of exclusive  $\Upsilon$  photoproduction from protons in pPb collisions at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV. *The European Physical Journal*, C79 no.3, 277.

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Albert M Sirunyan et al. (2019). Search for narrow  $H\gamma$  resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Physics Review Letters, 122 no.8*, 081804.

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Albert M. Sirunyan et al. (2019). Search for the Higgs boson decaying to two muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Physics Review Letters, 122 no.2*, 021801.

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Albert M Sirunyan et al. (2018). Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1810, 117.

Albert M Sirunyan et al. (2018). Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1811, 042.

A.M. Sirunyan et al. (2018). Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1809, 065.

Albert M Sirunyan et al. (2018). Measurement of the groomed jet mass in PbPb and pp collisions at  $\sqrt{s_{\mathbf{NN}}} = 5.02$  TeV. *Journal of High Energy Physics*, 1810, 161.

Albert M Sirunyan et al. (2018). Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two  $\tau$  leptons in proton-proton collisions at  $\sqrt{s}=13$  TeV. *Journal of High Energy Physics*, 1811, 018.

Albert M Sirunyan et al. (2018). Search for vector-like T and B quark pairs in final states with leptons at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1808, 177.

Albert M Sirunyan et al. (2018). Constraining gluon distributions in nuclei using dijets in proton-proton and proton-lead collisions at  $\sqrt{s_{\mathrm{NN}}} = 5.02$  TeV. *Physics Review Letters*, 121 no.6, 062002.

### **Research Projects**

DST Major Research Project, 2014-2020, *Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization*, Dr. Kirti Ranjan, Rs. 117300000.

DST Major Research Project, 2014-2020, *Updating and Operation of Regional WLCG Grid System*, Dr. Kirti Ranjan, Rs. 2530000.

DST Major Research Project, 2015-2018, Dr. Ashok Kumar, Rs. 2348000.

DST Major Research Project, 2013-2018, *R&D efforts by University groups for INO Project*, Dr. Md. Naimuddin, Rs. 17841000.

### **Seminar/Conference Presentations**

Ashutosh Bhardwaj

Session Chaired, Blois 2016: 28th Rencontres de Blois ` Particle Physics and–Cosmology, May 29–June 3, 2016, Blois (France).

### **Inter-Institutional Collaboration**

All Research Projects are inter-institutional projects.

### **Ph.D. / M.Phil. Awarded**

Ph.D. submitted - 1

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## **CENTRE FOR ENTREPRENEURSHIP AND CAREER ORIENTED PROGRAMME**

### **Major Activities and Achievements**

Centre for Entrepreneurship engaged in the establishment and activities of the Entrepreneurship Cells in various colleges of University of Delhi this year.

The Entrepreneurship Cell was established in Bhim Rao Ambedkar College on 11<sup>th</sup> April 2018.

Kirori Mal College has started a UGC six months course on Entrepreneurship and startup after CECOP established the E-Cell in their college in February 2017. The CECOP organised two lectures one on “Entrepreneurship” and another on the experience of a young successful women Entrepreneur, Director of Interactive Bees.

Keshav Mahavidyalaya, Zakir Hussain College and Maharaja Agrasen College established their Entrepreneurship cells.

Lady Irwin College organised a one-day workshop on “Foodpreneur” from Concept to Business” and invited the Director, CECOP to talk on “Women in Food Processing” on 28<sup>th</sup> February, 2019.

The Director, CECOP was invited to many colleges and Govt. organizations to deliver talks including Janaki Devi Memorial College, Vivekanand College, Shivaji College, Delhi Government, etc.

Many of the colleges are doing active work in their Entrepreneurship Cells in various colleges of University of Delhi.

## 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. It has contributed to the understanding of mechanisms through which naturalized and/or non-native plants achieve their competitive or general ecological success. Doctoral students of the Director are working on the invasion ecology of several exotic species. The Centre has also developed a successful strategy for the management of *Lantana* – an invasive alien species – in protected areas.

### Publications

Becerra, P., Callaway, R., Catford, J., Inderjit, Andonian, K., Luce, M., Aschehoug, E., & Montesinos, D. (2018). Inhibitory effects of *Eucalyptus globulus* on understory plant growth and species richness are greater in non-native regions. *Global Ecology & Biogeography* 27, 68-76.

Berger, A., Brouquisse, R., Pathak, P.K., Hichri, I., Inderjit, Bhatia, S., Boscari, A., Igamberdiev, A.U., & Gupta, J.K. (2018). Pathways of nitric oxide metabolism and operation of phytohemoglobins in legume nodules: missing links and future directions. *Plant Cell & Environment*, 41, 2057-2068.

Essl, F. et al. (2019). Drivers of the relative richness of naturalized and invasive plant species on earth. *AOB Plants*, forthcoming.

Inderjit, Pergl, J., van Kleunen, M., Hejda, M., Babu, C.R., Majumdar, S., Singh, P., Singh, S.P., Salamma, S., Rao, B.R.P., & Pyšek, P. (2018). Naturalized alien flora of the Indian states: biogeographic patterns, taxonomic structure and drivers of species richness. *Biological Invasions*, 20, 1625–1638.

Singh, S.P., Inderjit, Singh, J.S., Majumdar, S., Moyano, J., Nuñez, M.A., & Richardson, D. (2018). Insights on the persistence of pines (*Pinus* species) in the late Cretaceous and their increasing dominance in the Anthropocene. *Ecology & Evolution*, 00:1–15. <https://doi.org/10.1002/ece3.4499>.

van Kleunen, et al. (2019). The Global Naturalized Alien Flora (GloNAF) database. *Ecology*, 100(1) e2542.

### Research Projects

Department of Biotechnology, completed on June 18, 2018, “To study invasion ecology of *Prosopis juliflora* in contexts of biodiversity and conservation”.

Delhi Development Authority, 2017-2018, *Biodiversity Parks Programme*, Rs 92676380.

### Seminar/Conference Presentations

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

Invited to participate in workshops at Stellenbosch University in South Africa, 6 to 9 November 2018, Stellenbosch, South Africa. The workshop focused on the establishment of a research network for invasion science for BRICS countries (Brazil, Russia, India, China and South Africa).

Delivered invited lecture, “Causes of biological invasions” at the Natural Resources, University of Alberta, Canada, January 11 2018.

### **National/International Collaboration**

University of Toronto, Canada: A research student working under Prof. Inderjit is co-supervised by a faculty at 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 the largest outreach activity ever undertaken by any University in the world. The Biodiversity Parks have become the 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.

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

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

### **Faculty Strength**

Professor: 1; Professor Emeritus: 1; Non-teaching staff: 4.

### **Other Significant Information**

Prof. C.R. Babu is part of several task force committees at the Ministry of 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.

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## **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., Kumar, P., Mukhi, N., Tewari, A. K., Mukhopadhyay, A. Gupta, V., Pradhan A. K., & Pental, D. (2019). *BjuWRR1*, a CC-NB-LRR gene identified in *Brassica juncea*, confers resistance to white rust caused by *Albugo candida*. *Theor Appl Genet* (in press)

Rout, K., Yadav, B. G., Yadava, S. K., Mukhopadhyay, A., Gupta, V., Pental, D., & Pradhan, A. K. (2018). QTL landscape for oil content in *Brassica juncea*: Analysis in multiple bi-parental populations in high and ‘0’ erucic background. *Frontiers in Plant Science*, 9, 1448



Sivasubramanian, R., Pradhan, A. K., Pental, D., & Kaur, J. (2018). Genome-wide association mapping in *Arabidopsis* identifies novel genes underlying quantitative disease resistance to *Alternaria brassicae*. *Molecular Plant Pathology*, 19, 2719

### **Research Projects**

DBT-BBSRC (UK), 2018-2021, *Genomics-led improvement of abiotic stress tolerance in mustard rape for economic and environmental sustainability*, Rs 10843000.

DBT, 2019-2022, *Nutritional Improvement of Indian Oilseed Mustard Using CRISPR-Cas9 Mediated Genome Editing*, Rs 5345000.

### **Other Inter-Institutional Collaboration**

Collaborative research involving nine Indian and seven UK institutes.

### **Extension and Outreach Activities**

Seven tripartite Technology Transfer Agreements signed involving DU-BIRAC (DBT)- Seed Companies (Indian) for public outreach of the technology developed in the Centre.

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## **CENTRE FOR INNOVATION IN INFECTIOUS DISEASE RESEARCH, EDUCATION AND TRAINING**

### **Major Activities and Achievements**

Centre for Innovation in Infectious Disease Research, Education, and Training (CIIDRET) established under the ordinance XV-A of the University of Delhi since October 2015 has received due approvals of the Academic Council and the Executive Council. As per its mandate, it has initiated several activities, which include interaction with college students of science stream to inspire them to take up research and innovation as their career. CIIDRET has organised Public Lectures by international and national scientists who are leaders in their field in different areas of scientific research. CIIDRET has organised Industry-Academia Interaction through 'Entrepreneurship 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 organises 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).

CIIDRET has developed an ultra-large phage-displayed human antibody (scFv) library comprising of 10 billion clones. This library has been successfully used for selecting binders to a clinically important human target protein. The library is now being included in a Mission project on snakebite treatment by Department of Biotechnology, Govt. of India.

### **Honors/Distinctions**

Prof. Vijay K. Chaudhary Director, CIIDRET:

Co-Chairman of the DBT Task Force on "Infectious Disease Biology."

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

Chairman of the ICMR Monitoring Committee on "Health Technology Acceleration and Commercialization (HTAC)."

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

Dr. Amita Gupta is Joint-Secretary of the Bacteriophage Society of India.

### **Patents filed**

An antibody fragment library, and uses thereof; Vijay K. Chaudhary, Amita Gupta, Vaishali Verma. PCT application no. PCT/IN2018/050802.

A process for immobilizing polypeptides; Vijay K. Chaudhary, Amita Gupta, Vaishali Verma, Charanpreet Kaur, Payal Grover. PCT no. PCT/IN2018/050722.

Process for purifying emulsion PCR mixture, and implementations thereof; Vaishali Verma, Amita Gupta Vijay K. Chaudhary. Indian Patent Application no. 201811038157, 8 October 2018.

### **Posters/Oral presentations**

Vaishali Verma secured First position in Oral presentation entitled “Monobiotinylated Proteins as reagents for improved immunoassays” at International Conference on Advances in Biosciences and Biotechnology held at Jaypee Institute of information technology, Noida on 2nd February 2019.

IMPACT: Immunization-free Phage-based Antibody Cloning Technology. Verma, V., Gupta, A., Chaudhary, V.K. at Nextgen Genomics, Biology, Bioinformatics and Technologies Conference held from 30th September - 2nd October 2018 at Jaipur, India.

### **Conference/Workshop/Lectures Organised**

Organised lecture by Dr. Mark Feinberg, President and CEO, International AIDS Vaccine Initiative titled “Enabling Global Access to Monoclonal Antibodies Through Innovative Technology and Partnerships” on 28th March 2019, at 3.30 P.M at UDSC.

Organised lecture by Dr. Ashutosh Pastor, Manager, Foundation for Innovation and Technology Transfer (FITT), the Indian Institute of Technology Delhi on "Bio-Entrepreneurship: How to Kick Start your Startup" and by Dr. Sarita Ahlawat, the BIRAC\_BIG Innovator, TBIU, IIT-Delhi & Head- Living Science Group, on "Life in the start-up world: developing new technologies and a science communication platform" on 28 January 2019 at 4.00 P.M at UDSC.

Organised DBT-sponsored brain storming meeting on “Strategies for Treatment Modalities for Snake Bite with special focus on Recombinant Antibodies” at CIIDRET under the aegis DBT- funded Centre of Excellence on “Antibody Technology Research for Therapeutic and Diagnostic applications”.

Organised lecture by Dr. Devin Sok, the Director of Antibody Discovery and Development for IAVI (International AIDS Vaccine Initiative), at Scripps Research Institute, la Jolla, California, USA, on " Antibody Discovery against variable pathogens " at UDSC on 14th November 2018 at 3.30 PM.

Organised lecture by Prof. Christopher Broder, Director, Emerging Diseases Graduate Programme, Uniformed Services University of Health Sciences, Bethesda Maryland, USA entitled "Nipah virus and Hendra virus: Basic Science to Global Countermeasures" on 9th August 2018.

### **Seminar/Conference Presentations**

Prof. Vijay K. Chaudhary

Delivered lecture at Haffkine Institute for Training, Research and Testing on 4 January, 2019.

Delivered a lecture entitled “Antibodies in Diagnostics: Rapid Tests for Rural India” at 88th Annual Session of The National Academy of Sciences, India (NASI) in a symposium in Science, Technology and Ecosystem for Sustainable Rural Development jointly organised by Mahatma Gandhi ChitrakootGramodayVishwavidyalaya (MGCGV) & Deendayal Research Institute (DRI), Chitrakoot, Satna, M. P on 6-8th December 2018.

Delivered a lecture entitled “Genome Sequencing - Gel to NGS and Beyond” at Department of

Biotechnology, Ministry of Science & Technology, Govt. of India, on 17th September 2018.

Delivered a lecture entitled “The Magic of Antibodies” at National Conference on Recent Trends in Zoological Research in North-East India, North-Eastern Hill University, Shillong, jointly organised by Department of Zoology (NEHU) & Zoological Society (Kolkata) on 19th April 2018.

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## **CENTRE FOR INTER-DISCIPLINARY STUDIES FOR MOUNTAIN AND HILL ENVIRONMENT**

### **Major activities and achievements**

Realizing the significant contributions of the Centre in the field of environment impact assessment of power projects and environmental sensitivity studies of river basins, Ministry of Power, Government of India recognized it as Centre of Excellence in 2001-2002. It was established as an R&D Centre for conducting studies related to issues of environment impact and environment management in the power sector. The Centre has conducted numerous 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, Distinguished Visiting Professor at National University of Singapore.

### **Publications**

Berry, E., Sharma, S.K., Pandit, M.K. and Geeta R. (2018). Evolutionary correlation between floral monosymmetry and corolla pigmentation patterns in *Rhododendron*. *Plant systematics and evolution* 304 (2), 219-230.

Bhatt, J.P., & Pandit, M.K. (2019). Local hunting practices and wildlife conservation in Arunachal Pradesh, India. *Animal Conservation*, doi.10.1111/1cv.12492.

Bhatt, J.P., & Pandit, M.K. (2019). Local hunting practices and wildlife conservation in Arunachal Pradesh, India. *Animal Conservation*, doi.10.1111/1cv.12492.

Manish, K. (2019). Macroecological patterns and drivers of Himalayan plant species diversity and distribution through the Ages. *Frontiers of Biogeography*. <http://dx.doi.org/10.21425/F5FBG38754>

Manish, K., & 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.

Manish, K., & Pandit, M.K. (2018). Geophysical upheavals and evolutionary diversification of plant species in the Himalaya. *Peer J*. 6: e5919.

Manish, K., & Pandit, M.K. (2018). Phylogenetic diversity, structure and diversification patterns of endemic plants along the elevational gradient in the Eastern Himalaya, *Plant Ecology & Diversity*, <https://doi.org/10.1080/17550874.2018.15>.

Manish, K., & 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.

Manish, K., & Pandit, M.K. (2018). Geophysical upheavals and evolutionary diversification of plant species in the Himalaya. *Peer J*. 6: e5919.

Manish, K., & Pandit, M.K. (2018). Phylogenetic diversity, structure and diversification patterns of endemic plants along the elevational gradient in the Eastern Himalaya, *Plant Ecology & Diversity*, <https://doi.org/10.1080/17550874.2018.15>

#### **Number of Department Teachers serving as Editor(s)/Member(s) of Editorial Board**

01

#### **Research projects**

RS Envirolink Technologies, Pvt Ltd. Gurgaon, 2018-19, *Biodiversity Studies as part of EIA Studies for two Pump Storage schemes*, viz. Pinnapuram, Andhra Pradesh and Saundatti, Karnataka, Rs. 400000.

RS Envirolink Technologies, Pvt Ltd. Gurgaon, 2018-19, *Biodiversity Studies of Gori Ganga IIIA HEP in Uttarakhand*, Rs. 270000.

WAPCOS Ltd. Gurgaon, 2018-19, *Ecological Study for Odisha Thermal Power Plant Project at Kamakhyanager, Odisha*, Rs. 490000.

RS Envirolink Technologies, Pvt Ltd. Gurgaon, 2018-19, *Biodiversity Study of Dikhu HEP, Nagaland*, Rs. 490000.

#### **Seminars/Conferences Attended**

Jaya Arora, *National Conference on Environmental Challenges for New India*. Organised by Environmental Engineering Research Institute and National Environmental Science Academy held at Bhim Rao Ambedkar College, University of Delhi on 2-3 June, 2018.

Rishab Kaushik, Poster Presentation on “*Rhizosphere bacterial microbiome and plant invasion at the SCCS (Student Conference on Conservation Science)*”, held at University of Cambridge, the UK from 27 to 29 March 2018.

Rishab Kaushik, Presentation on “*Rhizosphere bacterial microbiome of congeneric native and exotic Prosopis congeners*”, at International conference on microbiome research held at Pune, India from 19 to 22 November 2018.

#### **Other Inter-institutional Collaboration**

Ecological Surveys & River Basin Studies, WAPCOS Limited, Gurgaon.

Biodiversity Studies, RS Envirolink Technologies, Gurgaon.

#### **Faculty Strength**

Permanent - 1

Contract - 2

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### **CENTRE FOR PROFESSIONAL DEVELOPMENT IN HIGHER EDUCATION**

#### **Major Activities and Achievements**

Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi, Delhi is one of the pioneer institutions of the country mandated to conduct various types of faculty training programmes for

Higher Education Institutions across India. CPDHE works for competence development in the field areas of research methodologies, pedagogy, ICT, Science and Technology, Environment and Education. For making higher education center hub of academic activity, CPDHE has envisaged a new multidimensional and integrative role. The Centre organises workshops for faculties involved in university and college administration including principals, directors, head of institutions, Orientation/Refresher courses for teachers with the objective to create awareness of linkages among Society, Culture, Linguistics, Environmental Science, Education and Development, Management, IT/Computer Awareness, Gender Issues and many such areas. Goal of CPDHE is to create talent for achieving excellence in Higher Education. This year CPDHE conducted 4 Orientation Programmes, 8 Refresher Courses and 5 Short Term Courses/ Workshops that were attended by 175, 315 and 230 participants respectively from teaching fraternity from universities/colleges across country. Some of the popular theme areas oriented to which courses were conducted are: राष्ट्र और समाज चिंतन के विभिन्न आयाम और शिक्षक, भारतीय और पाश्चात्यशोधदृष्टि, राष्ट्रसंवर्धन में मीडियाकी भूमिका, Ethics in Management and Business, इतिहास की भारतीयवपाश्चात्यदृष्टि, and Gender in an Interdisciplinary Context.

### **Publications**

Singh, Geeta and Mor, Surrender. *'Does Growth affect environment? Evidence from the World'*, Journal of International Economics (Vol. 10, No. 1, January-June 2019). ISSN No. 0976-0792.

### **Conferences Organised**

**Orientation Programmes:** Organised three orientation programmes, namely OR-92: 08/06/2018 – 06/07/2018; OR-93: entitled: राष्ट्र और समाज चिंतन के विभिन्न आयाम और शिक्षक - 03/07/2018 – 30/07/2018; OR-94: entitled: भारतीय और पाश्चात्य शोध दृष्टि - 09/10/2018 – 06/11/2018.

### **Refresher Courses:**

Refresher Course in Journalism and Mass Communication (SRC) Entitled: राष्ट्रसंवर्धन में मीडियाकी भूमिका-03/07/2018 – 23/07/2018

Refresher Course in Life Sciences (SRC) - 17/07/2018 – 06/08/2018

Refresher Course in Business Management, Economics and Commerce (SRC) Entitled: Ethics in Management and Business - 19/09/2018 – 11/10/2018

Refresher Course in History (SRC) Entitled: इतिहास की भारतीयवपाश्चात्यदृष्टि - 09/10/2018 – 30/10/2018

Refresher Course in Contemporary Issues of the World (IDC) - 27/11/2018 – 17/12/2018

Refresher Course in Social Concerns and Social Science (IDC) - 27/11/2018 – 17/12/2018

Refresher Course in Gender Studies (IDC) Entitled: Gender in an Interdisciplinary Context - 15/01/2019 – 05/02/2019

Refresher Course in Indian Philosophy, Tradition and Culture (IDC) - 15/01/2019 – 05/02/2019

**Short Term Courses:** Short Term Courses has been organised on Personality Development, Leadership and Ethics - 23/10/2018 – 29/10/2018; Nation Building - 18/12/2018 – 24/12/2018; Research Methodology - 18/12/2018 – 24/12/2018; Workshop on MOOCs, E-Content Development and Open Educational Resource - 13/03/2019 – 19/03/2019; Principals' Meet (one day) - 25/03/2019.

### **Seminar/Conference Presentations**

Prof. Geeta Singh, Director, CPDHE during the year 2018-2019

- Participated in “Training Workshops for NRCs regarding SWAYAM” organised by New Delhi Institute of Management, Tughlakabad Institutional Area, New Delhi on 11.07.2018.
- Participated in three days “Workshop on Training of Teacher” organised by Indian Institute of Science Education and Research (IISER), Pune, Maharashtra (March 27-29, 2019).

### Other Significant Information

Prof. Geeta Singh, Director, CPDHE has been actively involved in various academic activities during the year 2018-2019.

### Faculty Strength

Permanent: 1 (Director).

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## CLUSTER INNOVATION CENTRE

### Major Activities and Achievements

Eight students of CIC (B. Tech.) were selected for Google Summer of Code (GSOC 2018). CIC hosted several workshops ‘Digital Media’, ‘Gender-based Violence in Higher Education Institutions’, ‘e-Waste Management’, ‘Lifestyle Diseases’ and 66rganized camp on ‘Cleanliness Awareness’ at Roshanara Bagh, Delhi, ‘Healthcamp on Lifestyle Diseases’. CIC started the alumni interaction with the First Alumni Meet on January 2019. Institution Innovation Council (IIC) of University of Delhi was established at CIC on 21<sup>st</sup> Nov 2018 by MHRD.

### Honours/Distinctions

Dr. Asani Bhaduri received First prize in Simulation Exercise Group Presentation of Faculty Development Program on Climate Smart Governance at Indian Institute of Public Administration (IIPA), June 25- July 6, 2018.

Dr. M. Kaushik received First Poster Prize in Nanobioteck-2018, 3<sup>rd</sup> Annual conference of Indian Society of Nanomedicine, N. Sarkar, R. S. Sharma, M. Kaushik\* Comparative analysis of CuO and NiO nanoparticles obtained via green synthesis: For exploring better immobilization, ecotoxicity and photocatalytic degradation of dyes, All India Institute of Medical Sciences AIIMS, New Delhi, Delhi (24-27 Oct., 2018).

### Publications

Ahmed S., Kaushik, M., Chaudhary S., & Kukreti S. (2018). Formation of G-wires, bimolecular and tetramolecular quadruplex: Cation induced structural polymorphs of G-rich DNA sequence of Human SYTX gene. *Biopolymers*, 109 (5), e23115.

Ahmed S., Kaushik M., Chaudhary S., & Kukreti S. (2018). Structural polymorphism of a Cytosine-rich DNA Sequence forming i-motif structure: Exploring pHbased biosensors. *International Journal of biological macromolecules*, 111, 455-461.

Bagai S., (2018). Balanced number system: Application to mathematical puzzles. *Resonance*, 23, (12), 1395-1410.

Chaudhary, S., Kaushik, M., Ahmed, S., Kukreti, R., & Kukreti, S. (2018). Structural switch from hairpin to duplex/ antiparallel Gquadruplex at Single Nucleotide Polymorphism (SNP) site of human Apolipoprotein E (APOE) gene coding region. *ACS Omega*, 3 (3), 3173-3182.

Dhangar, T. K., Pathak, A. K., & Bhaduri, A. (2018). Identification of essential genes for metabolic reactions in *Mycobacterium tuberculosis* through flux balance analysis. *DU Journal of Undergraduate Research and Innovation* 4(1): 125-129.

- Kaushik M., Maheshwari S., & Raghunand R. (2019). Exploring promises of siRNA in Cancer therapeutics. *Current Cancer Therapy Reviews*, Accepted.
- Kaushik, M, Komal, S., Neelam, Mishra S., & Kukreti S. (2018) Emerging trends in advanced nanomaterials based electrochemical genosensors. *Current Pharmaceutical Design*, 24 (31), 3697-3709.
- 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), 55-64.
- Kaushik, M., Chaudhary, S., Komal S, & Kukreti S. (2019). Decoding DNA Structure Using NMR Spectroscopy”, in “Applications of NMR Spectroscopy “Bentahm Science Publishers: 8/19/2016-Ebk Series/NMR/EOI-41; Volume 7.
- Kaushik, M., Mahendru, S., Kumar, S., Chaudhary, S., Ahmed, S., Komal, S, & Kukreti S. (2018). Overview of Chemoresistance in Cancerous Cells. *Frontiers in Drug Design & Discovery*, 9, 35-90.
- Komal, S., Kukreti, S., & Kaushik, M. (2019), Exploring the potential of environment friendly silver nanoparticles for DNA interaction: Physicochemical approach, *Journal of Photochemistry and Photobiology Part B*, 194, 158-165.
- Komal, S, Kukreti, S., & Kaushik, M. (2018). Exploring the DNA damaging potential of chitosan and citrate-reduced gold nanoparticles: Physicochemical approach. *International journal of biological macromolecules*, 115, 801-810.
- Kumar, M., Kaushik, M., & Kukreti S. (2018). A topological transition from bimolecular quadruplex to G-triplex/tri-G-quadruplex exhibited by truncated double repeats of human telomere. *European Biophysical Journal*, 47, 903-915.
- Kumar, S., Pal, S. K., & Singh, R. P. (2018). Intra ELM variants ensemble based model to predict energy performance in residential buildings. *Sustainable Energy, Grids and Networks*, 16, 177-187.
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Singh, H. P., Jain, A., Singh, A., & Arora, S. (2019). Influence of absorber plate shape factor and mass flow rate on the performance of the PVT system. *Applied Thermal Engineering*, 156, 692-701.

Verma, A. K., Dixit, & V. S. (2019). A Comparative Evaluation of Profile Injection Attacks. In *Advances in Data and Information Sciences* (pp. 43-52). Springer, Singapore.

Sharma, J., Bagai, S., Tyagi, P., & Biswal, B. (2018). Parenting Gifted Children: Voices from India. In *Parenting for High Potential*. Volume 7, Issue 4. (pp.24-27). National Association of Gifted Children, USA.

#### **Number of Department Teachers serving as Editor(s)/Member(s) of Editorial Board**

03

#### **Research Projects**

Dr. J. S. Purohit, DST, 2017-20, 3 years, *Characterization of the H3 specific protease activity of GDH*, 62.76 lakhs

#### **Seminars Organised**

Ms. Poonam, AR/VR/MR Community, “Augmented Reality”, 30<sup>th</sup> Sept 2018

Md. Danish Kalim, Senior Data Scientist at PayTm Labs, “Machine Learning in Industry”, 11<sup>th</sup> October 2018

Prof. Rekha Chaturvedi, Former Chair IPR, University of Delhi “Intellectual property Rights”, 10<sup>th</sup> Jan 2019

Mr. Santosh, AR/VR/MR Community, “Augmented Reality”, 2<sup>nd</sup> March 2019

Ajit Doval, National Security Advisor, Govt. of India, “Art of Decision Making”, 19<sup>th</sup> March 2019 (Online)

#### **Seminar/Conference Presentations**

Alka Dutt

“Impact of E-Learning on the Growth of Student” – Paper Presented in GGSIPU Sponsored two-day Inter-disciplinary Conference on the theme “Education for Equality, Diversity & Inclusive Excellence” held on 6<sup>th</sup> – 7<sup>th</sup> Dec 2018 Titled “Achieving SDG Goals of Environmental Awareness Through Education” – Presented in two-day National Conference on Emerging Challenges of Environmental Health, Society and Policies 68rganized by Rajdhani College in collaboration with Department of Environmental Studies held on 15<sup>th</sup> & 16 February, 2019.

Dr. Anjani Kumar Verma

Anjani Kumar Verma, Dr. Veer Sain Dixit “An Outlier Accuracy Improvement in shilling attacks using KSOM”, in the proceedings on ICICCD-2018 held by University of Petroleum and Energy Studies, Bidholi Campus, Dehradun, Utrakhand, India, December 21-22, 2018.

Dr. Asani Bhaduri

Oral presentation: “Changing Food Habits and Lifestyle Diseases: An Analysis of Behavioral Risk Factors among Students” in *The Saga of Food: Politics, Aesthetics, & Technology*, at Vivekananda College, March 13-14, 2019.

Oral presentation: “Citizen Science as the New Face of Science Communication and Interdisciplinary Milieu” in *Sharing Teaching-Learning Experience Conference (STEC2019)* at IIT BHU, March 8-9, 2019.

Invited Talk: Invited for a guest lecture “Life around us, Technology around the world” at Biotechnology Department, Gandhi Faiz-E-Aam College, Shahjahanpur, November 26, 2018.



Invited Talk: Invited for a talk in St. Stephen's College on "Birdwatching in India", October 9, 2018.

Dr. Mahima Kaushik

Talk on "Green Technology: Recent Advances and Challenges" in National Workshop/ Seminar "Ubhartiharitprodyogikitathataqnikishabdawali" in Ramjas College, University of Delhi under the aegis of Commission for Scientific and Technical Terminology, West Block-&, R.K. Puram, New Delhi-110006, 14<sup>th</sup> Feb., 2019.

Comparative analysis of CuO and NiO nanoparticles obtained via green synthesis: For exploring better immobilization, ecotoxicity and photocatalytic degradation of dyes N. Sarkar, R. S. Sharma, M. Kaushik\* [First poster prize] Nanobiotech-2018, 3<sup>rd</sup> Annual conference of Indian Society of Nanomedicine, All India Institute of Medical Sciences AIIMS, New Delhi, Delhi 24-27 Oct., 2018.

Designing of polymeric nanoparticle drug delivery systems for the treatment of lung fibrosis A.Singh, R. Kulshrestha, A. Pandey, M. Kaushik, A.K. Dinda Nanobiotech-2018, 3<sup>rd</sup> Annual conference of Indian Society of Nanomedicine, All India Institute of Medical Sciences (AIIMS), New Delhi, Delhi, 24-27 Oct., 2018.

Characterization, and interactions of NiO nanoparticles synthesized by green method: Applications as Aptasensors [Oral Presentation] N. Sarkar, R. S. Sharma, M. Kaushik\* National Conference on Thieme Chemistry: Science of Synthesis; Department of Chemistry, University of Delhi, Delhi September 28, 2018.

Sachin Kumar

Key note on "Research Process Management: A Case Study", at International Conference on Quality Reliability Infocom Technology and Business Operations, 2018.

Prof. Shobha Bagai

"Mathematical Modeling in Medicine", 3-week Refresher Course in Computational and Mathematical Studies, UGC Human Resource Development Centre, Jamia Millia Islamia, New Delhi, 5<sup>th</sup> Sept 2018.

"Bio-Geography: Mathematical Analysis of Wildlife Reserves", 3-week Refresher Course in Computational and Mathematical Studies, UGC Human Resource Development Centre, Jamia Millia Islamia, New Delhi, 17<sup>th</sup> Sept 2018.

"Pathway from Research to Innovation", Interdisciplinary FDP – Effective Learning and Teaching Practices, Shyama Prasad Mukherji College, 26<sup>th</sup> Sept 2018.

"Bio-Geography: Mathematical Analysis of Wildlife Reserves", B R Ambedkar College, 26<sup>th</sup> Sept 2018.

"Metamorphosis of Senior Secondary School Mathematics to College Mathematics: Special Emphasis on Linear Algebra", Inaugural Conference of the Mathematics Teachers Association, Homi Bhabha Centre for Science Education, Mumbai, 3<sup>rd</sup> – 5<sup>th</sup> Jan 2019.

"Problem Based Learning in Mathematics at UG Level", MASTACOM 19, Mata Sundri College for Women, 19<sup>th</sup> Jan 2019

"Problem Based Learning in Mathematics at UG Level", St. Stephen's College for Women, 31<sup>st</sup> Jan 2019

"Mathematical Modelling in Physiology", National Conference on Complex Systems in Interdisciplinary Sciences, Jamia Millia Islamia, Delhi, 11<sup>th</sup> – 12<sup>th</sup> March, 2019.

Jyoti Sharma

"Science for People and People for Science", National Science Day Celebration at Indraprastha College for Women, University of Delhi, 28<sup>th</sup> Feb 2019.

“Pedagogical Innovations in the changing world”, Interdisciplinary FDP – Effective Learning and Teaching Practices, Shyama Prasad Mukherji College, 24<sup>th</sup> Sept 2018.

### **Other Inter-Institutional Collaboration**

Institution Innovation Council (IIC) of University of Delhi was established at CIC on 21<sup>st</sup> Nov 2018 by MHRD.

### **Extension and Outreach Activities**

Eleven semester-long projects were carried out by the students of B.A. Honours during the session 2018-19. These projects addressed the following social issues: Health of Women with PCOS; Gender-based Violence in Higher Education Setup; Argumentative Analyses of Contemporary Political Discourse; Skill Training – Writing and Editing; Swachhta and Tourism – A Case Study of Roshanara Bagh, Delhi; Women e-Rikshaw Drivers in Delhi: Exploring Social Relationship and Cultural Change; Lifestyle Diseases – Social Engagement to Target Behavioral Risk Factors among DU Students; E-waste Management; Dastaangoi; Public Scholarship Reporting in Environment (Climate Change); Disability and Accessibility for Students – A Sociological Study

### **Faculty Strength**

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

### **Other Significant Information**

AUTONOMI, the Robotic Society of Cluster Innovation Centre 70organized its Summer Internship Programme CRIP 2018 for undergraduate students. The duration of the Internship Programme was from 21<sup>st</sup> May 2018 to 20<sup>th</sup> July 2018.

Seventy students accompanied by 4 faculty members visited Cluster Innovation Centre on 11<sup>th</sup> October 2018. The students of the Maitreyi College from B.Sc. Physical Sciences with Computers Science interacted with the B.Tech. students of Cluster Innovation Centre.

CIC hosted its annual TechFest Convoke 3.0 from 25<sup>th</sup> – 27<sup>th</sup> Oct 2018.

On 23<sup>rd</sup> October 2018, students of M.Sc. (Mathematics Education) through Mathematics Education Society, CIC 70organized its annual event “MATRIX 3.0” under the guidance of Prof. Pankaj Tyagi and Dr. Jyoti Sharma. In the event, more than 200 school students, from different schools of Delhi, with their teachers participated in various competitive and non-competitive events. The competition includes mathematical games, problem solving, quiz and also various competitions for school teachers.

From 15-17 October 2018, under Gifted Education Project, funded by the Office of Principal Scientific Advisor to the Government of India, Dr. Jyoti Sharma (PI), Prof. Pankaj Tyagi (Co-PI), Prof. Shobha Bagai (Co-PI) and Prof. B. Biswal (Co-PI) conducted three-day Mentoring workshop for 30 students from Navodaya Vidyalaya based on concept of “Academic interaction for high standard students” for innovative methods of learning science and mathematics.

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## **DELHI UNIVERSITY COMPUTER CENTRE**

### **Major Activities and Achievements:**

Delhi University Computer Centre (DUCC), acts as an epicenter to facilitate ICT Services across the University of Delhi. During the last one year (2018-2019), DUCC continued to strengthen ICT Infrastructure and Services for Offices, Faculties, Departments and Colleges of University of Delhi for the benefit of all its stakeholders. As the central hub for all the ICT related activities, DUCC provides the Internet and Wi-Fi connectivity across the University. The design is planned 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 considered as 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, M.Phil./Ph.D. 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 Datacenter, DUCC also provides and manages critical services like e-mailing, DU main Web-Site, e-procurement & GeM, Bio-metric 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**

#### **New Robust Email System**

DUCC migrated the email services from Exchange to more robust open source 'Zimbra'. The user experience with regard to the availability of services and allotted space has increased manifold. The security parameters have also been integrated to safeguard the user accounts and data.

#### **New hosting platform**

In order to provide different department/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 more secure and flexible platform to the users.

#### **Automation of University process**

Various online forms were launched in order to cut down the manual intervention and to provide the services. Some of the manual services which are converted to online mode 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; Bandwidth of 10 Gbps at DU South Campus.

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 continued to be among the highest utilizers of NKN resources across the country. Recently the bandwidth at South Campus has also been increased from 1Gbps to 10Gbps.

### **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 Ring and connected from two sides so that the network will remain available even if the network gets disrupted from one side.

An MoU was signed between Maitreyi College (MCN) and Delhi University Computer Centre (DUCC) to start 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 (UIMS)

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 is 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.

Other important functioning/ hosting include:

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 IDs 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 the 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 organised various training programs 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 P S S – (Statistical Package for Social Sciences), 21-05-2018 to 25-05-2018, 12 participants attended.

Training Session on "Attendance Management System" for Delhi University Colleges (Batch 1), 13-07-2018, 60 participants attended.

Training Session on "Attendance Management System" for Delhi University Colleges (Batch 2), 17-07-2018, 35 participants attended.

Training Session on "Attendance Management System" (for Law Faculty), 27-08-2018, 20 participants attended.

Workshop on "How to Prevent Plagiarism", 14-09-2018, 19 participants attended.

MathWorks Seminar on "Demystifying Deep Learning with MATLAB", 19-09-2018, 28 participants attended.

Workshop on GeM "Government e-Marketplace", 25-09-2018, 39 participants attended.

Workshop on e-Procurement at Biotech Auditorium, South Campus, 9-10-2018.

Meeting/Demo on Vendor Bill Tracking Management System, 11-1-2019, 81 participants attended.

Demo/Training Session on Time Table Management System (Batch 1), 17-01-2019, 10 participants attended.

Demo/Training Session on Time Table Management System (Batch 2), 22-01-2019, 13 participants attended.

Workshop on GeM, 30-01-2019, 36 participants attended.

FDP on LaTeX & Scilab in Collaboration with ST IIT Bombay, 20-02-2019, 23 participants attended.

Demo/Training for Online Fee Payment Portal, 26-02-2019, 42 participants attended.

Meeting/Demo on Vendor Bill Tracking Management System, 25-04-2019, 69 participants attended.

### **Regular Activities**

Apart from new initiatives, Delhi University Computer Centre (DUCC) designs and administers 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

Fiber optic cable network of 43 kilometers 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 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)

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## **DELHI SCHOOL OF JOURNALISM**

### **Major Activities and Achievements**

The School organized its Annual Cultural Festival ‘Arushan’ on 12<sup>th</sup> and 13<sup>th</sup> April 2018. Intercollege competitions - Debate, Quiz, Photography, Ad-Mad, Poetry & Creative Writing were held. An orientation week was conducted in August 2018 for 1<sup>st</sup> semester students where eminent personalities from the Media and academics were invited to interact with the students. -Shri N.K Singh, Ms. Nilanjana Basu, Shri K.G Suresh, Ms. Devina Gupta. 15 Field visits to Media organizations were organized. The second Advisory Council meeting was held on 29<sup>th</sup> November 20178 which was attended by Shri Jagdish Upasane, Shri K.G Suresh, Shri Vijay Kranti, Arun Bhagat and Shri Satish K Singh.

### **Honours/ Distinctions:**

Dr. Manasvini M. Yogi (OSD), Awarded the Sankalp Se siddhi Award 2018 for Excellence in Education on 23<sup>rd</sup> December 2018 by Hope and Faith Foundation.

### **Publications:**

Mishra R.N (2018) Sub Edited *Bhavdiya*. Dr. Mookerjee Smriti Nyas: New Delhi.

### **Journals / News Magazine:**

The School Magazine- ‘Srijan’ released on 12<sup>th</sup> April 2018

First E-News Letter-Pravah-the Flux, released on 16<sup>th</sup> April 2019

### **Seminars Organised**

#### **Total number of seminars organised- 12**

Sixteen seminars by eminent Media Personalities, Media Channels and Academicians were organized w.e.f 9<sup>th</sup> August 2018- 31<sup>st</sup> March 2019 on various topics –

Shri N.K Singh-Eminent Journalist, on the topic ‘Patrakarita ke Vibhinna Ayam’ organized on 9<sup>th</sup> August 2018.

Shri Novy Kapadia ‘Sports Journalism’ organized on 10<sup>th</sup> September 2018.



Ms. Gayesha Gonzalez- on the topic 'Media Literacy, Digital Disinformation, Recommendations for Civil Society, Governments and Private Sector' organized on 12<sup>th</sup> September 2018.

Mr. Mukesh Bhardwaj- on the topic 'Reporting and Editing' organized on 17<sup>th</sup> September 2018.

Shri Dharendra Pundir-on the topic 'Politics and Sting Operation' organized on 24<sup>th</sup> September 2018.

Shri Prabal Pratap Sing-on the topic 'International Journalism' organized on 1<sup>st</sup> October 2018.

Shri Parnab Mukherjee-on the topic 'Theatre and Communication' organized on 11<sup>th</sup> October 2018.

Shri Saurabh Dwivedi-on the topic 'Online Journalism' organized on 28<sup>th</sup> January 2019.

Ashok Acharya-on the topic 'Inclusive Politics' organized on 5<sup>th</sup> February 2019.

Gulshan Sachdeva on the topic 'International Development Policy' organized 21<sup>st</sup> February 2019. A National Seminar on 'Nationalism and Media' supported by was organized on 13<sup>th</sup> April 2018.

### **Seminar /Conferences Presentation**

Dr. Manasvini M Yogi presented at International Conference on '*Role of Father in Hindi Cinema: Exploring Power Relations in Indian Society through Cinematic Lens of Bollywood.*' Organized by Delhi Metropolitan Education on 17<sup>th</sup> October 2018.

### **Faculty strength**

Full time faculty-2

Guest faculty-35 from Academy and Industry

### **Other Inter-Institutional Collaboration**

DSJ, Spanish online News Agency collaboration for internship and academic forums.

DSJ, Sputnik News Agency (Russian Embassy) collaboration for internship and academic forums.

### **Extension and Outreach Programmes**

Students are working with NGO's and Internshala (initiative of Times of India)

### **Other significant Information**

Gauri Joshi was selected for an Internship with 'Centreshift: Integrated Market Solutions' in June-July 2018. Students participated in Panasonic Camera Workshop held at Panasonic head office January-March 2019. Seven students were selected for reporting, photography and content writing at TPCI w.e.f. 1st January-14<sup>th</sup> January 2019. Hundred students participated in video conferencing discussion with Russian Media at Sputnik - Russian News Agency (a counterpart of Russian Embassy) in February-March 2019.

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## **D. S. KOTHARI CENTRE FOR SCIENCE, ETHICS AND EDUCATION**

### **Major Activities and Achievements:**

D.S.Kothari Centre for Science, Ethics and Education is a vibrant Centre with many activities to enrich the intellectual lives of students and faculty in Delhi University. We publish Working Papers every year. This year we have published three working papers. We also organise conference and seminars. We have also organised one conference and the D.S. Kothari Memorial Lecture this year. In addition, we have a good collection of books for students and teachers. In total we purchased 53 books.

## **Publications:**

Ishita Wadhwa (2018-2019)/ I. *An Ethnographic Study of Engineered Spaces in the Valley School.*

Neymat Chadha (2018-2019)/ II *The Unrestricted Canvas: exploring childhood through painting at the Valley Art Village*

Pooja (2018-2019)/III *Looking through the window of a classroom into the Rishi Valley School.*

## **Seminar/Conference Organised**

A workshop was held on 28 September, 2018, at the Department of Sociology, Delhi School of Economics, University of Delhi. Entitled “*A book discussion on J. Krishnamurti and Educational Practice: Social and Moral Vision for Inclusive Education*” (Oxford University Press, 2018).

D.S.Kothari Centre for Science, Ethics and Education, DU and South Asian University jointly organised a Panel Discussion “*Violence and Contemporary Society; Education and possibilities for Social and Political Transformation*” on 15<sup>th</sup> February, 2019 at FSI Hall, South Asian University.

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## **DEVELOPING COUNTRIES RESEARCH CENTRE**

### **Major Activities and Achievements**

The Centre organised various academic activities in 2018-19 with distinguished national and international visitors receiving wide media coverage. Monthly Lectures, Interactive Discourses, Seminars, Conferences and Workshops have made the Centre a competitive research hub in the discipline of social sciences apart from creating awareness on significant issues. Believing in continuity with sustainability, the Centre is publishing consecutive issues of its Quarterly Newsletter, Annual Report and Monthly Hindi magazine. After the successful completion of project *Samiksha: UP Assembly Election Survey*, another project *Samiksha: Delhi Municipal Election* with its apt electoral results has strengthened our presence in the academic forum as an emerging psephological center of the country. With the support of Northern Regional Centre – ICSSR, New Delhi, the Centre also organised a National Workshop on Indic Thought engaging academicians from various fields of social sciences and humanities in serious discussions on the theme.

### **Honours/Distinctions**

Prof. Sunil K Choudhary, Director DCRC was conferred with the Prof. G Ram Reddy IPSA Award, 2018 in the 58th All India Political Science Association Conference held at the Chaudhary Charan Singh University, Meerut, Uttar Pradesh on 29 December 2018. Prof. Sunil K Choudhary was felicitated with IPSA Citation and Award for making distinct contribution in the fields of democracy and governance.

Prof. Kaushal Kumar Sharma, Proctor at Jawaharlal Nehru University and Fellow, DCRC is appointed as Honorary Director, Northern Regional Centre (NRC), Indian council of Social Science Research (ICSSR).

### **Publications**

Four Issues of *Sanchayan*, Quarterly Newsletter Vol.3 No. 2, 3 and 4 (2018) and Vol. 4 No.1 (2019).

Six Issues of *Sanshleshan*, Monthly Hindi Magazine 2018-19.

### **Projects**

ICSSR sponsored project, ‘*Samiksha: UP Assembly Election Survey*’.

ICSSR sponsored two-day National Workshop on ‘Indic Thought’ on 24-25 January 2019.

### **Seminars/ Lectures/ Workshops/Interactive Discourses Organised**

The Centre organised a two-day National Workshop on ‘Indic Thought’ on 24-25 January 2019 sponsored

by the Northern Regional Centre – ICSSR, New Delhi. Shri Shakti Sinha, Director, Nehru Memorial Museum and Library, New Delhi; Prof. Kaushal Kumar Sharma, Director, NRC-ICSSR, New Delhi; Prof. M P Singh, Prof. Balaji Ranganathan, Dr. Dinesh Gehlot, Dr. Hariram Parihar, Dr. Himanshu Roy, Dr. Rajender Pandey were among some of the leading resource persons in the Workshop.

The Centre organised a Workshop on ‘State Politics of India’ on 26 October 2018. The panelists were Prof. Ashutosh Kumar, Panjab University, Chandigarh and Dr. Himanshu Roy, University of Delhi.

In the series of Monthly lectures, the Centre organised its Twelfth Monthly Lecture on 31 May 2018 on the theme ‘Higher Education in India: Dimensions and Directions’ which was delivered by Shri Atul Bhai Kothari Ji, an eminent educationist and Secretary, Shiksha Sanskriti Utthan Nyas, Delhi. The Program was chaired by Prof. Umesh Rai, Formerly Director, South Campus, University of Delhi and Major Harsh Kumar, Secretary, NCERT, New Delhi was the Guest of Honour.

The Centre organised an Interactive Discourse on ‘India’s Global Engagement: Scripting a Pro-Active Narrative’ with Professor Shanta Nedungadi Varma, Department of Political Science, University of Delhi on 31 July 2018.

The Centre organised an Interactive Discourse on ‘Media and Governance’ on 31 August 2018 with Shri Vijay Kranti, Senior Consultant and Editor, DD News as the Keynote Speaker. Shri Chandra Shekher, DD News was the Panel Discussant and Fellow Kumar Raajesh was the Coordinator of the Program.

The Centre organised 11th Pablo Neruda Lecture on 3 April 2018. Professor Sunil K. Choudhary delivered the lecture on ‘Philosophical Origins of Effective Teaching’.

The Centre organised the First Atal Bihari Vajpayee Lecture on the theme, ‘Dharma of Politics’ on 24 December 2018. The lecture was delivered by an eminent scholar and spiritual guru, Shri Pawan Sinha Ji.

The Centre organised a discussion on the theme, ‘Changing Electoral Landscape: A Study of Assembly Elections, 2018’ with Dr. Hariram Parihar, Dr. Dinesh Gehlot, Prof. Ramesh Bhardwaj and Fellow Sarad Kumar Yadav, as discussants.

### **Extension and Outreach Activities**

Through the ‘*Samiksha*: UP Assembly Election Survey’ and ‘*Samiksha*: Delhi Municipal Election Survey’ we were 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 organised an interaction amongst Fellows, Students, Scholars and Staff on 1 November 2018 as part of Vigilance Awareness Week on the theme, ‘Ethics and Probity in Life’.

The Centre regularly host foreign visitors including ambassadors, academics and research scholars. On 23 July 2018, Ms Katherine Storey, Second Secretary (Political), Australian High Commission visited DCRC for an academic interface to discuss and share her views on ‘The Changing Nature of Electoral Democracy in India and Australia’. Shri Anurag Bana, a Senior Legal Advisor, London also visited the Centre on 8 January 2019.

In the previous year, DCRC and its programs have received wide coverage in leading national newspapers and media. Prof. Sunil’s book on Parties and Party Systems, released by His Excellency Daniel Carmon, Former Ambassador of Israel to India and other dignitaries was covered by DD News, the Lok Satya and the Navbharat Times. The Centre’s two-day National Workshop on Indic Thought was aired at DD News on 25 January 2019. The celebration of ‘World Environment Day’ by the Centre was reported in many of

the daily newspapers including Hindustan, Lok Satya and Dainik Jagran. Prof. Sunil's interview on Karnataka election and Coalition Politics in India were published in the Dainik Jagran newspaper. He was also invited by the 'Rajya Sabha TV' for a panel discussion on the topic 'Boost to Higher Education'.

Keeping up with digital India, DCRC also has its twitter handle @drcofficial making a mark at the social media platform.

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## **DR. B. R. AMBEDKAR CENTRE FOR BIOMEDICAL RESEARCH**

### **Major Activities and Achievements**

Dr. B.R. Ambedkar Centre for Biomedical Research (ACBR) is one of the first research Centres of Delhi University wherein a multi-specialty group of scientists work as a cohesive team and carry out active teaching and research in the area of Biomedical Sciences. The Centre provides an excellent environment where students are provided with a focused, skill based Masters programme and are given training in various subjects related to human health. The emphasis of research is mainly on the interface of chemistry and biology and is being carried out in some of the frontline areas of basic and applied biomedical sciences such as Drug Discovery and Drug Development, Medical Biotechnology, Molecular Modeling, DNA Diagnostics, Molecular Oncology, Immunology, Genomics & Proteomics, Medicinal Chemistry, Cancer Genetics, Human Genetics and Neuropharmacology. Within a small span of time, ACBR has earned its name and fame both at the National and International level. Several of our faculty members are on the editorial board of prestigious journals, are Fellow of INSA and Indian Academy of Science (Allahabad), member GRC and have been awarded several prestigious research grants. The Centre has been granted a number of patents and has even transferred two diagnostic protocols to the Industry for commercial exploitation. In a short span of time, the faculty has made a mark in science by publishing research in highly reputed journals. Our students have also made us proud by getting various awards such as SUNPHARMA award, CSIR-SPM, PM-award, etc. Our former students are holding positions in various colleges, prestigious research Institutes, Industry and publishing houses.

### **Honours/Distinctions**

Dr. Manisha Yadav: Awarded Long-Term Foreign Fellowship (one year) from Ministry of Health and Family Welfare, Department of Health Research, Govt of India, India

Dr. Aparna Dixit: Innovative Young Biotechnology Award (IYBA 2018) by DBT, Govt. of India.

### **Publications**

Bano, N., Yadav M., & Das, B.C. (2018). Differential Inhibitory Effects of Curcumin Between HPV+ve and HPV-ve Oral Cancer Stem Cells. *Frontiers in Oncology*; 8, 412.

Bano N., Yadav M., Mohania, D., & Das, B.C. (2018). The role of NF-κB and miRNA in oral cancer and cancer stem cells with or without HPV16 infection. *PLoS ONE*, 13(10), e0205518.

Dixit, A. B., Sharma, D., Tripathi, M. et al., (2018). Genome-wide DNA Methylation and RNAseq Analyses Identify Aberrant Signalling Pathways in Focal Cortical Dysplasia (FCD) Type II. *Scientific Reports*, 8:17976.

Gulati, P., Kholi, S., & Brahmachari, V. (2018). In praise of mealybugs. *J.Genetics*. 97(2), 379-389.

Gupta, S., Kumar, P., Kaur, H., Sharma, N., Gupta, S., Saluja, D., Bharti, A.C., & Das B. (2018) Constitutive activation and overexpression of NF-κB/c-Rel in conjunction with p50 contribute to aggressive tongue tumorigenesis. *Oncotarget*, 9(68), 33011-33029.

Jalota, A., Kumar, M., Das, B. C., Yadav, A. K., Chosdol, K., & Sinha, S. (2018). A drug combination targeting hypoxia induced chemoresistance and stemness in glioma cells. *Oncotarget*, 9(26), 18351-18366.

- Kumar, R., Lal, N., Nemaish, V., & Luthra, P.M. (2018). Demethoxycurcumin mediated targeting of Mn-SOD leading to activation of apoptotic pathway and inhibition of Akt/NF- $\kappa$ B survival signalling in human glioma U87 MG cells in Toxicology and Applied Pharmacology. *Toxicol Appl Pharmacol*, 15(345), 75-93.
- Kumar, P., Wasim, L., Chopra, M., Chhikara, A. (2018). Co-delivery of Vorinostat and Etoposide Via Disulfide Cross-Linked Biodegradable Polymeric Nanogels: Synthesis, Characterization, Biodegradation, and Anticancer Activity. *AAPS Pharm Sci Tech*, 19(2), 634-647.
- Kumari, N., Agrawal, S., Kumari, R., Sharma, D., Luthra, & P. M. (2018). Neuroprotective effect of IDPU (1-(7-imino-3-propyl-2,3-dihydrothiazolo [4,5-d]pyrimidin-6(7H)-yl)urea) in 6-OHDA induced rodent model of hemiparkinson's disease. *Neuroscience Letters*, 675 (2018), 74–82.
- Mishra, C. B., Kumari, S., Prakash, A., R. Yadav, Tiwari, A.K., Pandey P., & Tiwari, M. (2018). Discovery of novel Methylsulfonyl phenyl derivatives as potent human Cyclooxygenase-2 inhibitors with effective anticonvulsant action: Design, synthesis, in-silico, in vitro and in vivo. *European Journal of Medicinal Chemistry*, 151, 520-532.
- Mishra, C. B., Kumari, S., Siraj, F., Yadav, R., Kumari, S., Tiwari, & A.K., Tiwari, M. (2018), The anti-epileptogenic and cognition enhancing effect of novel 1-[4-(benzo {1,3} dioxol-5-ylmethyl)piperazin-1-yl]-phenyl]-3-phenyl-urea (BPPU) in pentylenetetrazole induced chronic rat model of epilepsy in *Biomedicine and Pharmacotherapy*, 105, 470-480
- Mishra, C. B., Kumari, S., Angeli, A., Bua, S., Tiwari, M., Claudiu T. Supuran (2018). Discovery of Benzenesulfonamide derivatives as carbonic anhydrase inhibitors with effective anticonvulsant action : Design, Synthesis, and Pharmacological evaluation. *Journal of Medicinal Chemistry*, 61, 3151-3165
- Mishra, C. B., Kumari, S., Angeli, A., Bua, S., Buonanno, M., Monti, S.M., Tiwari, M., & Supuran, C.T. (2018). Discovery of potent anti-convulsant carbonic anhydrase inhibitors: Design, synthesis, in vitro and in vivo appraisal. *European Journal of Medicinal Chemistry*, 9(156), 430-443.
- Nagarjuna, D., Mittal, G., Dhanda, R.S., Gaiind, R., & Yadav, M. (2018). Alarming levels of antimicrobial resistance among sepsis patients admitted to ICU in a tertiary care hospital in India - a case control retrospective study. *Antimicrobial Resistance and Infection Control*, 7, 150.
- Nemati, M., Malla, N., Yadav, M., Khorramdelazad, H., & Jafarzadeh, A. (2018). Humoral and T cell-mediated immune response against trichomoniasis. *Parasite Immunology*, Mar, 40(3).
- Paul, D., Dixit, A. B., Srivasatava, A. et al., (2018). Altered Transforming Growth Factor Beta/SMAD3 signalling in patients with Hippocampal Sclerosis. *Epilepsy Research*, 146.
- Pandey, R., Sharma, M., & Saluja, D. (2018) SIN-3 as a key determinant of lifespan and its sex dependent differential role on healthspan. *Caenorhabditis Elegans. Aging (Albany NY)*, 10(12), 3910-3937.
- Patel, S.S., Ray, R.S., Sharma, A., Mehta, V., Katyal, A., & Udayabanu, M. (2018). Antidepressant and anxiolytic like effects of Urticadioica leaves in streptozotocin induced diabetic mice. *Metab Brain Dis.*, 33(4):1281-1292.
- 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. *Appl Microbiol Biotechnol*, 103(2), 843-851.
- Pawar, A., Jha, P., Konwar, C., Chaudhry, U., Chopra, M., & Saluja, D. (2018). Ethambutol targets the glutamate racemase of Mycobacterium tuberculosis-an enzyme involved in peptidoglycan biosynthesis. *Appl Microbiol Biotechnol*. doi: 10.1007/s00253-018-9518
- Sachdev, D., Wasnik, K., Patel, A.L., Sonkar, S.C., Desai, P., Pramanik, J.M., Kerkar, S., Sethi, S., Sharma, N., Mittal, P., Ghope, P., Khandhari, & A., Saluja, D. (2018). Multi-centric validation of an in-house-

developed beacon-based PCR diagnostic assay kit for Chlamydia and Neisseria and portable fluorescence detector. *J Med Microbiol.*, 67(9), 1287-1293.

Sharma, M., Pandey, R., & Saluja, D. (2018). ROS is the major player in regulating altered autophagy and lifespan in sin-3 mutants of *C. elegans*. *Autophagy.*, 14(7), 1239-1255.

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 and Drug Design*, <https://doi.org/10.1111/cbdd.13488>.

Shweta, S., Kumar, G., Vashishta, M., Pandey, R., Rathore, S., Chourasia, B.K., Singhal, J., Deshmukh, A., Kalamuddin, M., Paul, G., Panda, A., Tatiya, S., Rawat, K., Gupta, D., Mohammed, A., Natarajan, K., & Malhotra, P. (2018). Biochemical characterization of Plasmodium complement factors binding protein for its role in immune modulation. *Biochemical Journal*, 475, 2877–2891.

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Soni, N., Jyoti, K., Jain, U.K., Katyay, A., Chandra, R., & Madan, J. (2018). Noscapinoids bearing silver nanocrystals augmented drug delivery, cytotoxicity, apoptosis and cellular uptake in B16F1, mouse melanoma skin cancer cells. *Biomed Pharmacother*, 105, 1360.

Srivastava, K., Chandra, S., Narang, R., Bhatia, J., Saluja, D. (2018). E-selectin gene in essential hypertension: a case-control study. *Eur J Clin Invest*, 48(1).

Srivastava, A., Dixit, A. B., Paul, D. et al. (2017). Comparative analysis of cytokine/chemokine regulatory networks in patients with hippocampal sclerosis (HS) and focal cortical dysplasia (FCD). *Scientific Reports*, 21; 7 (1):15904.

Umar, T., Shalini, S., Raza, K., Gusain, S., Kumar, J., Ahmed, W., Tiwari, M., & Hod, N. (2018). New amyloid beta-disaggregating agents: Synthesis, pharmacological evaluation, crystal structure and molecular docking of N-(4-((7-chloroquinolin-4-yl)oxy)-3-ethoxybenzyl) amines. *Med Chem Comm*, 9(11), 1891-904.

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Verma, V., Arora, R., Dhanda, R.S., Gaiind, R., & Yadav, M. (2018). Data showing levels of interleukin-1 $\beta$  and nitric oxide in the plasma of uropathogenic *E. coli* infected UTI patients. *Data Brief*, 19, 526-529.

Verma, V., Gupta, S., Kumar, P., Rawat, A., Dhanda, R.S., & Yadav, M. (2019). Efficient production of endotoxin depleted bioactive  $\alpha$ -hemolysin of Uropathogenic *Escherichia coli*. *Preparative Biochemistry & Biotechnology*, 31, 1-7.

Yadav, A. K., & Vashistha, V. (2018). GSK3 beta and hnrnp1 (rna binding protein) cooperates with cmyc transcriptional regulator, antagonizes gsk3 alpha under therapeutic stress. *Neuro-Oncology*, 20(6), page vi78, <https://doi.org/10.1093/neuonc/noy148.322>.

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Wasim, L., & Chopra, M. (2018). Synergistic anticancer effect of panobinostat and topoisomerase inhibitors through ROS generation and intrinsic apoptotic pathway induction in cervical cancer cells. *Cellular Oncology*, 41(2), 201-212.

Zafar, A., Singh, S., Satija, Y.K., Saluja, D., & Naseem, I. (2018). Deciphering the molecular mechanism underlying anticancer activity of coumestrol in triple-negative breast cancer cells. *Toxicol In Vitro.*, 46, 19-28.

## Research Projects

SERB, 2018/01, “*Deciphering the role of Sumoylation during Mycobacterium tuberculosis infection*”, Rs. 1000000.

IYBA Grant, Project No. BT/11/IYBA/2018/04 dated 06/02/2019, funded by DBT, Govt. of India, 2018-2021, “Comparative analysis of src kinase mediated high glutamatergic activity in the anterior temporal lobe (ATL) and Hippocampus of the Hippocampal sclerosis patients”, Rs. 5816800.

Synergy Grant from Principal Scientific Advisor, Govt. of India, F. No.: Prn.SA/Epilep/2017, 2018-2021, “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)”, Rs. 6605000.

## Seminars Organised

Speakers under SURP 2018

Dr. Anirban Basu, Professor, NBRC, Manesar, *Host pathogen interaction in Japanese Encephalitis Virus infection: from pathogenesis to therapy*, 1<sup>st</sup> June.

Dr. Shailja Singh, Associate Professor, Special Centre for Molecular Medicine, JNU, New Delhi, *Emerging tools and techniques for anti-malarial drug discovery especially the ones we have developed and used.*, 4th June.

Dr. Jyotirmoy Banerjee, Assistant Professor, Dept of Biophysics, AIIMS, New Delhi, *Understanding Epilepsy, A Network Disorder: A Cellular Electrophysiological Approach*, 8th June.

Dr. Laishram R. Singh, Assistant Professor, ACBR, DU, New Delhi, *Protein Folding, proteopathy and Human diseases*, 11th June.

Dr. Surajit Sarkar, Assistant Professor, Dept of Genetics, South Campus, New Delhi, *Drosophila melanogaster: a tiny organism solving gigantic complexities of human neurodegenerative disorders*, 14th June.

Dr. Yatendra Satiza, INSPIRE Faculty, ACBR, DU, New Delhi, *Mechanistic Insights Into Real-Time PCR*, 18th June.

Dr. Kamna Srivastava, Assistant Professor, ACBR, DU, New Delhi, *Early Biomarkers for cardiovascular diseases*, 22nd June.

Dr. G. S. Sodhi, Associate Professor, SGTB Khalsa College, *Chemical detection of fingerprints*, 25th June.

Dr. Md. Imtiyaz Hassan, Assistant Professor (Biophysics), Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, *Structure-function relationships in protein: Cutting-edge tools and methods*, 29th June.

Dr. Kunzang Chosdol, Professor, Dept of Biochemistry, AIIMS, New Delhi, *Clinical significance of molecular markers in grading/sub-grading of tumors*, 9th July.

## Conferences Organised

9th workshop on Bioinformatics and Molecular Modelling in Drug Design, March 25-27, 2019 Sponsored by DBT. Organising Secretary Dr. Madhu Chopra; Several invited speakers presented their talks; Dr. Dinesh Gupta, ICGB; Dr. Debasisa Mohanty, NII; Dr. Gitanjali Yadav, NIPGR; Dr. Lipi Tukral, IGIB; Dr. Arnab Bhattacharjee, JNU; Dr. Ankita Narang, IGIB; Dr. Lubna Wasim, AIIMS; Dr. Abhilash, IIT, New Delhi.

## Seminar/Conference Presentations

Dr. Madhu Chopra: “Computer Aided Drug Design to reduce animal use in drug development” in National Workshop on ‘Alternative methods to animal testing’ on 27<sup>th</sup> to 29<sup>th</sup> March 2019, at Rajguru College of Applied Sciences, New Delhi.

Dr. Madhu Chopra: “Mechanism Based Rational Design and Development of Drugs” in national conference on Emerging Trends in Computational Drug Discovery (ETCCD-2018), August 16-17, 2018, at KIET school of Pharmacy, Ghaziabad.

Dr. Madhu Chopra: “Computational methods for rational drug design and development” on 3<sup>rd</sup> July, 2018 at Department of Biotechnology at IILM-CET, Greater Noida in Faculty Development Programme, entitled Approaches for Insilico drug designing sponsored by APJAKTU, scheduled from July 3-7, 2018.

Dr. Aparna Dixit: Invited speaker at Dept. of life sciences, ITM University, Gwalior, January 2019.

Dr. Aparna Dixit: Invited speaker in 15th National EEG workshop and Master class for Epilepsy Surgery and Neurobiology, BHU, Banaras, 21<sup>st</sup> - 23<sup>rd</sup> Nov 2018.

Dr. Aparna Dixit: Invited for Panel discussion at the 12NatFoE being organised at IIT Guwahati 17-18<sup>th</sup> September 2018.

### **Other Inter-Institutional Collaboration**

Collaboration (Dr. Madhu Chopra) with

Dr. Anil K. Mishra and Dr. Puja Panwar, INMAS, Delhi.

Dr. Aruna Chhikara, Dyal Singh College (University of Delhi).

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

**Ph.D.: 10**

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## **INSTITUTE OF CYBER SECURITY AND LAW**

### **Major Activities and Achievements**

Post Graduate Diploma in Cyber Security and Law (PGDCSL) started its first batch from the Academic Session 2018-19 under the aegis of Institute of Cyber Security and Law (ICSL), with Shaheed Sukhdev College of Business Studies. This is a self-financing course wherein the delivery of the course is through Faculty from Industry as per the GFR and Guidelines for Information Technology projects. The first batch enrolled 57 students and all seats were full across all categories with no drop out.

### **Research Projects**

During the first Semester, as a part of the curriculum, the students of PGDCSL undertook various projects under the supervision of the industry experts in the field of cyber security from knowledge partner, Lucideus Inc.

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## **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, Human Resource Management, Finance Management, Document Management, College management etc. and currently student life cycle management is being implemented.

The Institute organised 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 organised 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.

### **Publications**

Kumar, S., Kumar, M., Budhiraja, R., Das, M.K., Singh, S.(2018). Investigation of coupled map lattice as a diffusion model for enhanced image security, Proceedings of TENCON 2018 - 2018 IEEE Region 10 Conference (Jeju, Korea, 28-31 October 2018). doi: 10.1109/TENCON.2018.8650305.

Kumar, S., Kumar, M., Budhiraja, R., Das, M.K., Singh, S. (2018). Performance evaluation of a new shuffling cipher model with most used chaotic dynamical systems, Proceedings of TENCON 2018 - 2018 IEEE Region 10 Conference (Jeju, Korea, 28-31 October 2018). doi: 10.1109/TENCON.2018.8650471.

### **Journals**

Published by the Department

Kumar, S., Kumar, M., Budhiraja, R., Das, M.K., Singh, S. (2018). A cryptographic model for better information security. *Journal of Information Security and Applications*, 43, 123-138.

Kumar, S., Kumar, M., Budhiraja, R., Das, M.K., Singh, S. (2018). Securing images with a diffusion mechanism based on Fractional Brownian Motion. *Journal of Information Security and Applications*, 40, 134-144.

Kumar, S., Kumar, M., Budhiraja, R., Das, M.K., Singh, S. (2018). A secured cryptographic model using intertwining logistic map, *Procedia Computer Science*, 143, 804-811.

### **Research Projects**

DU/DST, 2014-2019, *Setting up the Research Infrastructure for Network Architecture and Security, Cyber Security and Forensic*, Rs. 750000.

### **Seminars Organised**

Workshop on “Google MLCC study Jam” on 9<sup>th</sup> September 2018, at University of Delhi South Campus.

Workshop/Tech event on “IESA Makeathon” on 22<sup>nd</sup> and 23<sup>rd</sup> October 2018 at University of Delhi South Campus.

Workshop on “Raspberry Pi Community Bootcamp” on 27<sup>th</sup> January 2019 & 10<sup>th</sup> February 2019.

### **Seminar/Conference Presentations**

Techspur, an annual national one-day Technical seminar on 25<sup>th</sup> October 2018.

Envisage’19, an annual national conference on open source technology for the students and faculty members on 15-16<sup>th</sup> March 2019.

### **Students under Exchange Programme**

01: Summer internship program with National Tsing Hua University, Taiwan.

### **Placement Details**

#### **On campus**

Number of Organizations Visited: 05; Number of Students Participated: 38; Number of Students Placed: 18.

Off Campus

Number of Students Placed: 11

Number and percentage of students placed: 29 & 76.31

Number of Companies visited for campus recruitment: 03

### **Extension and Outreach Activities**

Collaborated with Connecting Dreams Foundation for Social entrepreneurship and empowerment

**Faculty Strength:** 03 (Positions)

01 retired, 01 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 organise Hackathon and Idea championship events including national level Idea Challenge.

Mr. Sandeep Kumar Singh, M.Sc. student was awarded Capt. Anuj Nayyar Memorial Gold Medal-2018, University of Delhi.

Mr. Avinash Kr. Shudhanshu and Ms. Himanshi received Jawahar Bhawan Trust merit-cum means scholarship.

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## **INTER-DISCIPLINARY CENTRE FOR PLANT GENOMICS**

### **Major Activities and Achievements**

Major programmes undertaken in this Centre focused on structural and functional genomics of crop plants. So far, we have participated internationally in the sequencing of rice, tomato and wheat genomes. The work on wheat genome has nearly come to completion and an article was published last year in 'Science', a high impact journal, with a highly improved version of the wheat genome. This high-quality genome sequence of wheat is being exploited internationally for improvement of wheat varieties for ideal plant phenotype and tolerance to various adverse environmental conditions. Simultaneously, we have embarked upon characterization of rice bZIP genes like OsbZIP1 and OsbZIP62, and F-box protein coding genes like OsFBK1 and Zeitlupes that have a prominent role in regulating plant development, especially with respect to transition to flowering and panicle development, as well in controlling plant height.

### **Honours/Distinctions**

**Proferssor Jitendra P. Khurana**

### **Publications**

International Wheat Genome Sequencing Consortium et al. (2018). Shifting the limits in wheat research and breeding using a fully annotated reference genome. *Science* 361 (6403): eaar7161 (1-13).

Pandey, A., Yadav, V., Sharma, A., Khurana, J.P., & Pandey, G.K. (2018). *unc-53*, *rac* GTPases, *abl-1*, and *unc-5* are components of the signaling pathway regulating DTC and ALM neuron migrations in *C. elegans*. *Cell Adhesion & Migration* 12: 195-203. (doi: 10.1007/s12192-017-0854-1).

Pandey, A.S., Sharma, E., Jain, N., Singh, B., Burman, N., & Khurana, J.P. (2018). A rice bZIP transcription factor, *OsbZIP16*, regulates abiotic stress tolerance when over-expressed in Arabidopsis. *Journal of Plant Biochem. Biotech*, 27, 393–400. (doi.org/10.1007/s13562-018-0448-8).

Sharma E., Jain, M., & Khurana, J.P. (2018). Differential quantitative regulation of specific gene groups and pathways under drought stress in rice. *Genomics*. doi: 10.1016/j.ygeno.2018.11.024.

### **Research Projects**

Prof. J.P. Khurana, DBT, 2015-2020, entitled “Functional Validation of Genes Involved in Regulating Transition to Flowering in Rice”; Rs. 14000000.

Professor J.P. Khurana, SERB, 2018-2023; J.C. Bose Fellowship Project; *ca.* 9000000; initial sanction till October 31, 2019.

### **Seminar/Conference Presentation**

#### **Proferssor Jitendra P. Khurana**

Delivered a lecture in a refresher course organised by CPDHE and Department of Botany, University of Delhi, in August 2018.

Attended an International Conference/Workshop and participated in the Panel Discussion organised by ICGEB, New Delhi, in October 2018.

Delivered a Plenary Lecture in the International Plant Physiology Congress organised by CSIR-NBRI, Lucknow, in December 2018.

Chaired a session in workshop organised by NASI at Indian National Science Academy, in February 2019.

Co-Chaired a session during the Agricultural Congress held at NAAS Complex, New Delhi, in February 2019.

Delivered a lecture at AASSA-INSA-NISCAIR International workshop, held at New Delhi, in February 2019.

### **Faculty Strength**

Four members are associated and they are on regular positions of the Department of Plant Molecular Biology, UDSC.

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## **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 Centre 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(LN<sub>2</sub>) storage tank and distribution facility  
Renishaw Laser Raman Spectrometer  
Cary Eclipse Fluorescence spectrophotometer (solid and liquid samples)  
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

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## **WOMEN'S STUDIES AND DEVELOPMENT CENTRE**

### **Major Activities and Achievements**

Visit of Chinese Delegation from Tsinghua University, Beijing at Women Studies and Development Centre, University of Delhi on 10<sup>th</sup> August, 2018.

The WSDC held a Logo Design Contest for the Centre from 20-02-2019 to 10-03-2019. This contest was open to all students enrolled in all Universities located in Delhi.

### **Publications**

Bhatia, M., (co-authored) (2019). 'Mothers at the Malls': A Study of Glocal Aspirations and Mothering from Delhi. Accepted for publication by the peer reviewed journal: Feminist Encounters: A Journal of Critical Studies in Culture and Politics

### **Research Projects**

UGC, 2014-2019, Gender & New Middle Class.

### **Seminars Organised**

Women's Studies and Development Centre conducted three National and International Workshops during the period 2018-19.

Six Day National Workshop/Faculty Development Programme conducted on Gender Sensitization on Human Rights in collaboration with Satyawati College, University of Delhi from 15-10-2018 to 21-10-2018.

International immersion program on Global Feminism: Contexts and Contestations in collaboration with Miranda House, University of Wisconsin, Eau Claire (US) and Indian Institute of Dalit Studies (IISD) from January 7 to January 21, 2019.

Six-day National Workshop on Gender and Development Organised by Women's Studies and Development Centre (Advanced Study), University of Delhi, in collaboration with Institute of Social Studies Trust, held from 11<sup>th</sup> February to 16<sup>th</sup> February, 2019.

### **Seminar/Conference Presentations**

Dr. Manjeet Bhatia made a presentation on Gender Sensitization at the Department of Mathematics, University of Delhi on 25<sup>th</sup> April, 2018.

Dr. Manjeet Bhatia made a presentation on Gender Sensitization for Non –Teaching and teaching Staff of Department of CIE, university of Delhi on the occasion of Yoga Day, on 21<sup>st</sup> June, 2018.

A Lecture on Domestic Violence: A Study by Dr. Manjeet Bhatia in a Faculty Development Programme on 28th November, 2018 at Hansraj College, University of Delhi, Delhi-110007.

Dr. Manjeet Bhatia presented a paper on a session on Law a Tool for Gender Justice on 20<sup>th</sup> Dec, 2018 at the Faculty Development Program organised by Hansraj College, University of Delhi.

Dr. Manjeet Bhatia presented a paper on Gender Equality through Legal intervention in the international conference on Sustainable Development Goals (SDGs): Opportunities and Challenges in 2030 Agenda held on March 15, 2019 in HIPA, Fair lawns Shimla.

### **Students under Exchange Programme**

Visit of twelve students and one teacher from Tsinghua University, Beijing at Women Studies and Development Centre, University of Delhi on 10th August, 2018 with the aim to learn from different sources.

Eleven students and two teachers from University of Wisconsin Eau-Claire, USA, students from Miranda House, Kamla Nehru College and other institutions of Delhi University participated in the Immersion Programme on *Global Feminism: Contexts and Contestations* held at WSDC in collaboration with University of Wisconsin, Eau Claire (US) and Indian Institute of Dalit Studies (IISD) from January 7, 2019 to January 21, 2019.

### **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 Delhi NCR.

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/workshops 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: 02 (One Director, One permanent faculty)

**Other Significant Information**

The Centre has brought out reports of its workshops and the research project.

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**WORLD UNIVERSITY SERVICE HEALTH CENTRE**

**Major Activities and Achievements**

The W.U.S. Health Centre came into existence on 19<sup>th</sup> March 1955. The present building is more than 64 years old. A number of new facilities have been added over the years.

The W.U.S. Health Centre (North Campus) caters to approx 1,60,000 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 2018-19 was 1,17,740 and the total clinical services (Physiotherapy, Pathology Lab., Nursing and Dressing) was 60,885. Approximately 410 patients seek consultation in OPD per day. These numbers are ever increasing.

WUS Health Centre (South Campus) caters to approximately 15,000 beneficiaries. Approximately 95 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 5000 beneficiary clientele. 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 5500 beneficiary clientele. 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 1<sup>st</sup> April, 2018 – 31<sup>st</sup> March, 2019 is as follows:

North Campus: 1,17,740

South Campus: 24,431

East Delhi: 3,860

West Delhi: 9,461

Total Clinical Services of W.U.S. Health Centres for the financial year 1<sup>st</sup> April, 2018 – 31<sup>st</sup> March, 2019 is as follows:

North Campus: 60,885

South Campus: 8,951

West Delhi: 1,256

East Delhi: 119

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:

Sports Trials for Online Undergraduate Programmes, 2018: 22<sup>nd</sup> June 2018 to 30<sup>th</sup> June 2018

Inter College Judo (M & W) Championship 2018-19: 14<sup>th</sup> & 15<sup>th</sup> November, 2018

95<sup>th</sup> Annual Convocation: 19<sup>th</sup> November, 2018

70<sup>th</sup> Republic Day Programme: 26<sup>th</sup> January, 2019

Inter College Taekwondo (M & W) Championship 2018-19: 30<sup>th</sup> & 31<sup>st</sup> January, 2019

Eminent Alumni Lecture Series 'Perception': 8<sup>th</sup> February, 2019

Tempest 2019: 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> February, 2019

Inter College Football Tournament: 25<sup>th</sup> February, 2019

Blood Donation Camp: 25<sup>th</sup> February, 2019

61<sup>st</sup> Annual Flower Show: 1<sup>st</sup> March, 2019

On the occasion of Holi: 21<sup>st</sup> March, 2019

World Health Day was celebrated in W.U.S. Health Centre (North Campus) on 7<sup>th</sup> of April 2018. 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 were 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 were 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](http://www.du.ac.in) and W.U.S. Health Centre website <http://wushealthcentre.du.ac.in> for the information of University fraternity.

Health checkup camps, Cardiac checkup camps, Diabetes control camps have been organised 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.

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: 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 9 dedicated Medical Officers [including 1 medical consultant on contract, 1 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), Skin (4 days per week), Ophthalmology (thrice per week), Dental (3 hours, six days per week)], 8 Permanent Pharmacists, 1 Technical Assistant (Pathology Laboratory), 6 Ministerial Employees, 19 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.

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)], 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. These Health Centres have a Medical Store and Pharmacy.

#### **Other Significant Information**

Provision of branded medicines from Government Medical Store Depot (GMSD).

Provision of HGH quality medical care to the patients.

Provided medical cover to the dignitaries and sports activities.

Quick and timely disposal to the patients.

Timely disposal of Medical claims of reimbursement.

Timely disposal of medical examination of fresh appointees/commutation of pension.

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### **DEPARTMENTS**

#### **FACULTY OF APPLIED SOCIAL SCIENCES & HUMANITIES**

##### **BUSINESS ECONOMICS**

#### **Major Activities and Achievements**

The Department of Business Economics successfully ran an MBA programme in Business Economics and a Ph.D. programme during the period 1 April, 2018 to 31 March, 2019. The placement cell of the Department was successful in finding 48 placements for the final year students and 49 for the first-year students. Two students were awarded doctoral degrees. A total of 69 speakers from the industry, government, academia, research institutes and NGOs spoke in the Department and interacted with students and faculty at weekly and other seminars organized on different topics in the Department. Other student activities organized in the Department include: Genesis, Vishleshan, Reminiscence (Annual Alumni Meet), Annual Convention, Arthniti, Markibiz, Pahal, HR Conclave, Ad Wars, Moolyankan and A Day with Alum.



## **Publications**

Gupta, Y. and Dastidar, A.G. (Eds.) (2018). Transforming Indian Economy: From Vision to Reality. New Delhi: Ane Books.

Kaul, V.K., (2019). Oil War to Tech War, *Geopolitics*, March 2019

Kaul, V.K., (2018). Shaping or disrupting the world system? *Geopolitics*. July 2018

Kaul, V.K., (2018). India in the Changing Global order, *Geopolitic*, May 2018

Kaul V.K. & Chowdhury T.R. (2018), "India Stimulating Growth in Bay of Bengal Region: Integrating Key Interests and Strengthening Innovation Capacity," *South Asian Survey*, 25 (1-2) 102-128.

Kumar, Sunil (2019), "Ambedkar's Economic Ideas & Contributions", *IOSR Journal of Humanities and Social Science*, 24(3), 50-54.

Kumar Sunil and Pinki (2018), "Overview of Gandhi's Ideal Economy", *International Journal of Interdisciplinary Research and Innovations*, 6(3) 253-255.

Negi, Chander (2018), "Agricultural Growth and Crop Diversification in Himachal Pradesh." *Transforming Indian Economy From Vision to Reality*, edited by Yamini Gupt and Ananya Ghosh Dastidar, 123-136. New Delhi: Ane Books.

Mohan, Chander and Verma, Vishal (2018). "Estimating Sacrifice Ratio for Indian Economy: An Empirical study", *Global Journal of Information system*, 10(2).

## **Seminars Organized**

Mr. Saurabh Jain, (VP, Paytm), The "Build for India" initiative, Blockchain and CSR, Opportunities at Paytm, 8 August 2018.

Mr. Ashish Khanna, (AVP, Cushman and Wakefield), Work Ethics and Culture across different verticals in real estate sector, 24 August 2018.

Mr. Nitin Mittal, (Head Talent Acquisition( Global Shared Services)-Ericsson), Do analytics driven HR initiatives have a humanizing or dehumanizing effect on employees? 1 September, 2018.

Mr. Manish Sharma, (IBM-HRBP), Relationship between employee attributes and organisational performance, 1 September 2018.

Ms. Dipanjana Bhattacharjee (Piramal Foundation-HR Program Manager), Data-driven recruitment process: Facilitating the implementation and harnessing its potential, 1 September 2018.

Mr. Sandeep Dutta, (Chief Practice officer , Fractal Analytics), AI and its Cutting Edge, 20 September 2018.

Mr. Chhabilendra Roul (Special Secretary, Department of Agricultural Research & Education, Ministry of Agriculture), India in 2020: Towards a Developed Nation, 27 October 2018.

Mr. Nomit Joshi (Head Marketing - Gionee India), Change in Customer's Behavior in Offline & Online Marketing, 13 October 2018.

Mr. Rajesh Garg, (Director Finance and Compliance - Karl Storz GmbH & Co KG), Expectation of Industry from Professionals in the VUCA World, 16 February 2019.

Mr. Colin Mendes (General Manager- HR, Voltas Beko), Digital Transformation : Skills to Sustain & Grow, 28 February 2019.

## Conferences Organized

Forty-fifth Annual Convention on “India in 2020: Towards a Developed Nation,” at S.P. Jain Centre, University of Delhi South Campus on 27<sup>th</sup> October 2018.

## Seminar/Conference Presentations

### Seminar Presentation

Dastidar, A.G. Chaired session on *Economics of Inequality and was Discussant of 2 papers* at CAS Young Scholars’ Seminar, December 6 and 7, 2018 at CESP, JNU.

Details of Papers Discussed : “*The Movers and Stayers: Wage Inequality and Wage Mobility in India, 2004-05 to 2011-12.*” By Balakrushna Padhi, CSRD, Jawaharlal Nehru University and “*Inequality of Opportunity and Economic Growth in India.*” by Mrinalini Jha, Delhi School of Economics.

Gupt, Y. presented paper “*Economic Benefits of Ecologically Restored Mined-out Areas: Lessons from Purnapani*” at NABARD’s workshop on “Stakeholder Consultations for Development of Biodiversity Parks on Degraded Forest Areas and Community Wasteland” at Aravalli Biodiversity Park, New Delhi on 31 May and 1 June 2018.

Kumar, S presented paper “*Does Male Monopoly in Sports is Fading Away*” in a National Seminar on “*Overcoming Gender Discrimination in 21<sup>st</sup> Century India,*” organised by UPSA & Women’s Studies Center, Kumaun University Nainital from 30<sup>th</sup> November to 1<sup>st</sup> December 2018.

Roychowdhury, T., presented paper “*Women labour supply in India: Feminization hypothesis and determinants*” at the CAS Young Scholars Seminar, 2018, Center of Economic Studies and Planning, Jawaharlal Nehru University.

### Conference Presentation

Gupt, Y., presented a paper “*Challenges Facing Lead Acid Batteries,*” at “International Conference on Lead and Lead Batteries — Road Map for India,” at IIC New Delhi on 22-23 October 2018.

Gupt, Y., chaired a session on Economics of Sustainable Development: Health at the 2<sup>nd</sup> International Conference on Business, Economics & Sustainable Development (ICBESD 2019), January 17-18, 2019 TERI School of Advanced Studies New Delhi.

Kaul, V.K., presented paper ‘*India’s Response to Climate Change and Energy Security: A National Innovation System Perspective*’ at International Conference on Coping with Global Backlash at University of California, Berkeley, USA on October 18-19, 2018. Sponsored by BASC, CLTC, the Wong MNC Center, the Clausen Center, and IEAS.

## Placement Details (Number and percentage of students placed)

Students placed: 48 (87.27%); number of companies visited campus: 20.

Summer Internships: 47 (98%); number of companies visited campus: 31.

## Extension and Outreach Activities

Students initiated activities to help underprivileged sections of society under the Roots initiative. These include drives to collect warm clothes and dry rations.

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

Ph.D.: 02 (two)

## Faculty Strength

Permanent: 07

Ad hoc: 01

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## FACULTY OF ARTS

### ARABIC

#### Major activities and achievements

The Department of Arabic organized a two-day National Seminar on the topic “Arabic scholars of Delhi and their academic contributions” on 29-30 January 2019. Under Prof. K. A. Fariq Memorial Lecture Series – 12 Prof. Sharif Husain Qasmi was invited to deliver talk on “Dehli Ke Chand Ghair Ma’roof Ulama-e-Din” 29<sup>th</sup> January 2019.

#### Publications

Akhtar, H. S. (2019). Gandhi ji aur Hindustani Zaban Aajkal, *Salooni Journal*, pp. 27-28.

Akhtar, H. S. (2019). Iqbal Haider aur unka Fann, *Salooni Journal*, pp. 66-99.

Akram, M. (2018). “شأة المعاجم والمصطلحات العربية الطبية”, I.H.F., New Delhi.

Akram, M. (2018). Hakim mohammad ajmal khan aur arabi zaban o adab, *Shama-e-Hayat*.

Akram, M. (2018). Taleem aur akhlaqiyat. *Salooni Journal*.

Khan, M.N. (2019). Maa alughah al-arabiyya, *Kayfa Nashartu al-Arabiyya*, Nasir al Jabr, B(ed.) 1(1), pp. 335-351.

#### Seminar/Conference Presentations

Akhtar, M.

Presented paper *Majallah Al-Arabi wa-dauruha fi-Ithrael al-logah al-Arabiah* in Three-day International Conference on Essay Literature in the Arabian Gulf by the Department of Arab Studies, School of Arab and Asian Studies, EFLU, Hyderabad, 13-15 November 2018..”.

Presented paper on *Maulana Manazir Ahsan Gilani Apni Nigarishat Ke Aine Mein*. in Two-day National Conference on The Life and Contributions of Maulana Manazir Ahsan Gilani at Institute of Objective Studies, New Delhi 1-2 December 2018 .

Participated paper on *Dirasah Muqaranah Baina al-Sahar wa-Taha Husain fi-rewayataihima fi- “Qafilah al-Zaman wa Shajrat-ul-Boos Arabic Novels After 1950 A.D* in Two-day National Seminar by the Department of Arabic, University of Mumbai, Mumbai, 13-14 February 2019 .

Presented a paper on *Arab Duniya Par Mahatma Gandhi Ke Asraat* in one day seminar on Gandhi in World Literature organized by the Gandhi Bhawan, University of Delhi, 2019.

Hasan, N.

Presented paper on *Teaching of Arabic Language in Madrasas and Jamiaat in India; Problems and Solutions* in Two-day International Conference on Arabic Language in 21<sup>st</sup> Century: Challenges & Solution by Centre of Arabic and African Studies School of Language, Literature and Culture Studies, JNU, 12-13 March, 2019.

Presented paper on *Family life in the view of Islam* in Two-day International Seminar on Family System in World Religions organized by Al-Mustafa International University, Iran (India Branch) and Centre for Interfaith Understanding, AMU, Aligarh, 13-14 February 2019.

Presented paper on *Sheikh Sanaullah Amritsari and His Contribution to Arabic Tafseer* in Two-day National Seminar on Contribution of India to Arabic Studies 1900-1950 by the Department of Arabic, Aligarh Muslim University, Aligarh, 26-27 February 2019.”

Presented paper on *Feature of Indian Society as depicted in writings of Ameena al-Sayeed with special reference to "Mushahadatun fi al-Hind" (India as I saw)* in Two-day National Seminar on India in Writings of Arab Historians organized by All India Association of Arabic Teachers and Scholars and the Department of Arabic, Jamia Millia Islamia, 29-30 March 2019.

Khan, M.N.

Presented paper on *Impact of Arabic on Indian Languages* in Two-day National Seminar on impact of Arabic on Indian Languages, P.G. Department of Arabic, University of Kashmir, Srinagar 11-12 September 2018.

Presented paper on *Masihul Mulk Hakim Mohammad Ajmal Khan and his Contribution to Arabic Literature* in Two-day National Seminar on Contribution of India to Arabic Studies 1900-1950, Department of Arabic, Aligarh Muslim University, Aligarh 26-27 February 2019.

#### **Number of Ph.D./M.Phil. awarded (10)**

Ph.D. – 1

M.Phil. – 9

#### **Faculty Strength (9)**

Permanent - 7 (2 Professors, 2 Associate Professors, 3 Assistant Professors)

Guest Faculty - 2

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### **BUDDHIST STUDIES**

#### **Honours/Distinctions**

Prof K.T.S. Sarao

*Certificate of Honour for Excellence in Pāli Language* by the President of India as part of the Independence Day Honours (2018).

Session chair at National Conference on Quantum Physics, Brain Function in Modern Science and Buddhist Philosophy organized by Tibet House, New Delhi, 1-2 December 2018.

#### **Publications**

Pavagadhi, S.B. (2018). Mental Health as discussed in Pāli Literature in Mishra, R. (ed.), *Ancient Indian Medicine*, 102-108.

Rana, R.K. (2018). Some Facets of Tathāgatathā (Buddha Nature) Doctrine in Mishra, R. (ed.), *Ancient Indian Medicine*, 30-46.

Sarao, K.T.S (2018). Bāku kā Agni Maṅdir, Bābā Nānak va Udāsī Paraṃparā (in Hindi), *Itihāsa*, part 4, no. 4, 70-84.

Sarao, K.T.S. (2018). Buddhism in Southeast Asia. In *Jasrotia*, S. (ed.), Shubhi Publication, 10-19.

Sarao, K.T.S. (2019). Buddhist Perspective on Sustainable Development. In Nayak, A. K. (ed.), *Transition Strategies for Sustainable Community Systems: Design and Systems Perspective*, Switzerland, AG: Springer Nature, 39-50.

Sarao, K.T.S. (2019). Contours of the History of Buddhism in India. In Tu, T.N. (ed.), *Buddhism Around the World*, Hanoi: Religion Publisher, 209-240.

## **Journals**

### **Number of Department faculty serving as Editor(s)/Member(s) of Editorial Board-1**

### **Conferences Presentation**

Sarao, K.T.S.

Special lecture on *Buddhism and Spirituality* at the Department of Education, Amity University, NOIDA, 4 October 2018.

Special lecture on *Buddhist Perspective on Peace and Conflict Resolution* in UGC-Sponsored Short Time Course in Peace Studies and Conflict Resolution at Department of Buddhist Studies, Calcutta University, Kolkata, 14-20 November 2018.

Special lecture on *Swami Vivekananda, Buddhism and Interfaith Dialogue* at the Ramakrishan Mission Ashram, New Delhi, 11 September 2018.

Keynote speech on *Ancient Indian Buddhist Educational System and Institutions* in. Two-Day International Conference on Centres of Educational Excellence and Sites of Knowledge in Early India up to the Thirteenth Century CE at Deen Dayal Upadhyaya College, Delhi University, 12-13 October 2018.

Keynote Speech on *Buddhism in Southeast Asia* and chaired a session at the *Second International Conference on Buddhism in Southeast Asia*, Phnom Penh, Cambodia, 03-08 September 2018.

Presentation on *Buddhist Perspective on Ecology and Environmental Consciousness* at International Buddhist Conference, Lumbini, Nepal, 28-30 April 2018.

Keynote speech on *The Princess of Ayodhyā and Indo-Korean Relations* in International Conference on Indo-Korean Relations and Buddhism organized by Subharti University, Meerut, 22 November 2018.

Presentation on *Buddhism and Jainism on the Principle of 'Vasudhaiva Kuṭumbakam* in Vivekananda International Foundation Seminar on Vasudhaiva Kuṭumbakam, New Delhi, 16-17 January 2019.

Presentation on *Bābā Nānak's Visit to the Mahājvālā Jī Temple of Baku and the Udāsī Paramparā* in National Seminar on Sri Guru Nanak Dev, the Poetics of Vismād: A Futuristic Possibility by Khalsa College, Patiala, 19 January 2019.

Keynote speech on *Biography of the Buddha as Reflected in the Legends of the Jātakas* in Symposium on Popular Culture organized by Department of History, Janaki Devi Memorial College, Delhi University, 01 March 2019.

Keynote speech on *Relevance of Buddhism in Today's Globalizing World* in South Asian Festival of Buddhism and Sufism organized by Sahitya Akademi and Foundation of SAARC Writers and Literature, New Delhi, 22-24 February 2019.

Keynote speech on *Relevance of Pāli-based Buddhism in Today's Globalizing World* in 10-Day Workshop on Pāli Language and Literature organized by Śrī Saṃkarācāriya University of Sanskrit, Kalady (Kerala), 10-20 January 2019.

### **Seminars Organized / Workshop (1)**

Bhatt, S.R (2018). First Mittal Memorial Lecture was on 12 February 2018.

### **M.Phil./Ph.D. Degrees Awarded (18)**

MPhil - 12

Ph.D. - 06

### **Faculty Strength (10)**

Permanent - 10

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## ENGLISH

### Major Activities and Achievements

The Department of English organised a number of seminars and conferences including A two-day International Conference on *Politic, Power and Spectacles in Shakespeare* by the Shakespeare Society of India in collaboration with KMC and the Department of English DU on March 7th and 8th, 2019. Department observed a three-day Seminar Series on "Romanticism and the New Political" by Professor Jennifer Wawrzinek, Potsdam University, Germany from September 18-20, 2018. An exhibition by the title "The 1947 Partition Archive" was organised on October 24th, 2018.

### Honours/Distinction

Devadawson, C.R. (2018). Jury Member FICCI National Awards for Literature, August.

### Publications

Aneja, A. (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, A.K.S. Books: Chennai, 2019, pp. 145–158.

Antony, S. (2018). In Search of a Method in the Madness: A Critical Overview of the New Age Digital Pedagogical Practices and Challenges. In Sheena Thomas (ed.). *New Age Trends in Education* published by The Bhopal School of Social Sciences, Bhopal, 29-38.

Antony, S. (2019). Ecotones as Loci of Cultural Diversity: Nature Culture Continuum in the Spatial Representations in Jhumpa Lahiri's *The Lowland*. In Sandhya Tiwari (ed.). *Post Modern Indian Women Writers in English: Critical Concerns and Trends*. Research India Press: New Delhi, 138-154

Bhattacharya, R. (2018). *Public Women in British India: Icons on the Urban Stage*, New Delhi, London & New York: Routledge.

Bhattacharya, R. (2018). *Restless Waters of the Ichhamati. Translated and introduced New Delhi: Rupa.*

Chattarji, S & Gupta, S. (2019). Protests, repression, restructuring: contemplating Indian Higher Education in 2018. Special Issue, *Student Protests and the Nationalist-Neoliberal Nexus, Postcolonial Studies*, 22 (1), pp. 117-130.

Chattarji, S. (2018). English literary studies in India: between critical thinking and instrumental

drives. In Chin Ee Loh, Suzanne Choo, and Catherine Beavis (ed.) *Literature Education in the Asia-Pacific: Policies, Practices and Perspectives in Global Times* (London and New York: Routledge), pp. 73-85.

Chattarji, S. (2019). Student protests, media and the University in India. *Special Issue, Student Protests and the Nationalist-Neoliberal Nexus, Postcolonial Studies*, 22 (1), pp. 79-94.

Devadawson, C.R. (2018). Foreword, *Visuality and Identity in Varughese E.D Post-Millennial Indian Graphic Narratives* London, Palgrave, xi- xii.

Kumar, P. (2019). Citizenship and the Remains of Partition(s) in South Asia: Unauth rized Migrants across India's Eastern Borders. *Departures in Critical Qualitative Research* 8.1, (Spring 2019): 50-65.

Kumar, R. (2019). *Dalit Literature and Criticism*. Orient BlackSwan, Delhi.

Kumar, R. (2019). Social Dimensions of Dalit Movements: A Study of Dalit Struggles in Odisha. In Bechain, S.S. (ed). *Samaj Sahitya Ke Prashna Aur Dalit Chetana (Society, Literature and Dalit Consciousness)*. Anamika Publishers, New Delhi, 2019, pp. 90-102.

Negi, P. (2018). Kinnaur: A Site of Global Confluence. *Daath Voyage: An International Journal of Interdisciplinary Studies in English*. 3 (2).

Panja, S. (2018). Renaissance New Historicism: Unacknowledged Debts and Unusual Blindspots. *The JMC Review*, 2, pp.1-38.

Panja, S. (2019). Interanimation of Word and Image. In Pande, A. (ed). Book *Third Eye: Photography and Ways of Seeing* Delhi: Speaking Tiger.

Raja, I. (2018). New Literatures: The Indian Subcontinent and Sri Lanka. *The years' Work in English Studies*, 97, pp. 1344-1353.

Sharma, A. & Sabharwal, G. (2018). Anger is a Short Madness. In Sanjeev Jain and Alok Sarin (Ed.) *The Psychological Impact of Partition in India*, Sage: New Delhi.

### **Journals**

Number of Departments faculty members serving as Editor(s)/Member(s) of Editorial Board

Five faculty are Editor/Associate Editor/Managing Editor in six journals

Five are member of Editorial Board/Reviewer Boards/Advisory Board in seven journals.

### **Seminars Organized**

#### **Total number of seminar organised- 15**

Adamik, V. Potsdam University, Germany Hidden Monsters – Popular Gothic Fiction in Late Nineteenth Century Britain, 4 October, 2018.

Borgohain, P. An academic and bilingual writer, “Lecture on Community, Travel, Transformation and Narration in Yeshe DorjeeThongchi’s Autobiography *Hanhiaru Sakulor Haihob* (A Childhood of Laughter and Tears; 2016)”, 5 November, 2018.

Cox, K. Principal Lecturer in English and Head of English at Sheffield Hallam University (UK), ‘Crude stitches’ Traumatized skin as locus and praxis in adaptation studies from *Frankenstein* to *Frankenstein in Baghdad*”, 29<sup>th</sup> January, 2019.

Cox, K. Principal Lecturer in English and Head of English at Sheffield Hallam University (UK), ‘Trauma, portals and the idea of post-home; The new weird refugee experience’, 5 February, 2019.

Lemke, S. Professor of Cultural Studies at the English Department of the Albert-Ludwigs-University Freiburg, “When Hollywood Sensationalizes Underdogs Precarity and Precariousness in *Slumdog Millionaire* and *The Hunger Games*”, 19 February, 2019.

Majumder, D. Assistant Professor of English Literature at her alma mater--Jadavpur University, “Petrarch and the Construction of Selfhood”, 8 October 8th, 2018.

Muraleedharan, K. S. Assistant Professor in the Department of English and Languages, Amrita University, Kochi Campus, "Lecture on Travel Writing: Some Contemporary Readings", 16 November, 2018.

Moore, H. (2019). An award-winning ecopoet and socially engaged artist based in Scotland, “*ECOZOA: Revisioning the Anthropocene*”, 4 February, 2019.

Majumdar, S. (2019) Professor of English and Creative Writing at Ashoka University, *An Interactive session* with 12 February, 2019.

Singh, J. G. (2019). Professor of English, Michigan State University, United States of America, “Shakespeare and Postcolonial Theory”, 19<sup>th</sup> February, 2019.

Trivedi, H. (2018). Formerly Professor in the Department of English, DU, “The Nobel Savage and the Wounded Nation: Naipaul and India”, 5<sup>th</sup> September, 2018.

## Conferences Organized

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.

A three day National Conference on “Dalit Literature: Texts and Contexts”, was organised by the Centre for Dalit Studies (CDS) under the aegis of UGC-SAP DSA III Programme on 13-15 March, 2019.

A three-day National Seminar on “Machiavelli in His Time, and Ours”, was organised on October 8-10, 2018.

Professor Wawrzinek, J., Potsdam University, Germany, A 3-Day Seminar Series on "Romanticism and the New Political”.

## Seminar/Conference Presentations

Aneja, A.

Presentation on *Empowering the Persons with Disabilities and Ensuring Inclusiveness and Equality* in National Seminar by JNU's Disability Studies Programme in collaboration with the Society for Disability and Rehabilitation Studies on 12<sup>th</sup> December, 2018.

Presentation in a Two Day National Conference on Disability Rights and Status in India-Policy, Programmes for PwDs organised by Pondicherry University in collaboration with National Institute for Empowerment of Persons with Multiple Disabilities, DEPwD's, Ministry of Social Justice & Empowerment, Govt. of India, Chennai from 7<sup>th</sup>-8<sup>th</sup> February, 2019.

Presentation in a One-day National Seminar on Rights, Concessions and Entitlements of Persons with Disabilities organised by Enabling Unit of Jamia Millia Islamia in collaboration with Rehabilitation Council of India's ZCC -Northern-III Zone on 28<sup>th</sup> March, 2019.

Presented in a National Seminar on Dimensions of Disability Studies: Evolution and Prospects organised by Equal Opportunity Cell, Rajdhani College, University of Delhi on 6<sup>th</sup> March, 2019.

Presentation in a Two-day Multidisciplinary National Conference on Emerging Trends in Tertiary Education: Assessing Challenges and Possibilities organised by Gargi College, University of Delhi from 29<sup>th</sup>-30<sup>th</sup> March, 2019.

Presentation in an *International seminar on Dialogues on disability* organised by

*Humboldt University, Berlin* from 26<sup>th</sup> August-2<sup>nd</sup> September, 2018.

Presentation in the *5<sup>th</sup> International Conference on Inclusive Education* organised by Amar Jyoti Charitable Trust, New Delhi, India in collaboration with the Asian Centre for Inclusive Education, Dhaka, Bangladesh from 28<sup>th</sup>-30<sup>th</sup> November, 2018.

Presented in an *International Conference on Culture, Language and Identity Formation: Diaspora in a Globalizing World* (with Special Reference to East and Central Europe and Russia) organised by the Department of Slavonic and Finno-Ugrian Studies, University of Delhi from 27<sup>th</sup>-28<sup>th</sup> February, 2019 in India.

Antony, S.

Presentation on *Exploring the limits of Ecophronesis in Rosshan Andrews' film How Old Are You?* in UGC sponsored national seminar Capitalist Politics and Ecology in World Literature by Department of English, Sree Sankaracharya University of Sanskrit, Regional Centre, Trivandrum, 4-6 April, 2018.

Presentation on *An uncommon want: A Search for the Hero in Contemporary Malayalam Cinema* in UGC sponsored national seminar on Cinematic Imagination: Negotiating Gender and Sexuality by Mar Athanasius College (Autonomous) Kothamangalam, Kerala on 8<sup>th</sup> February 2019.



Presentation on *Optical echoes of the text: Locating memory in contemporary literature* in Logos, the annual festival of The English Literary Society of St. Stephen's College, February 14<sup>th</sup> 2019.

Presentation on *Sing the oikos to sustain the oikos: Eco-ethics in the Evangelized Literary and Performative Cultures of Latin Catholic Communities of South Kerala in India*, Symposium on Movement, Place and Health in Literature by Umëa University, Sweden at Nordic Centre in India, Delhi, India, 10 September, 2018.

Bhattacharya, R.

Invited talk on *Artful zones' in plotting urban narratives*, at the Department of Comparative Literature, Visva-Bharati, Santiniketan, 20 January 2019.

Keynote address to International Conference on '*Literary Commons: Comparative Frames*', Ambedkar University, Delhi, 19 February 2019.

Chattarji, S. Presentation on *Throwaway People: Memory and Trauma in Memoirs by Vietnamese American Women* in War Memories International Symposium on 'Celebrations, Reconstructions, Representations and War Narratives in the English-Speaking World (18<sup>th</sup> to 21<sup>st</sup> Centuries).' Royal Military College, Canada. 12-14 June 2018.

Dubey, Y. K. Invited talk on *Sensitising Students in Human Society* in the Induction Programme of Government Engineering College, Bharatpur, Rajasthan, August 13, 2018.

Kumar, P.

Invited talk on *Muhajirs as a Diaspora* at Department of English, Ashoka University, September 2018.

Invited talk on *Indian Literary Historiography and Dalit Discourse* in a Faculty Development programme organized by Daulat Ram College, University of Delhi, Delhi. 2018.

Special talk on *Introduction to Dalit Literature* in Department of English, Kumar Mangalam University, Gohna Road, Haryana on 4<sup>th</sup> April 2018.

Keynote Speech on *Understanding Marginalities* in the Valedictory Session in a national seminar organized by Central University, Rajasthan on 16<sup>th</sup> November 2018.

Special lecture on *Being an Outcaste in India: Sharankumar Limbale's Akkarmashi'* at Department of English, Dayal Singh College, University of Delhi, Delhi on 26 February 2019.

Special talk on *Dalit Literature and Criticism* at Department of English, Sambalpur University, Odisha on 8 March 2019.

Special talk on *From Text to Performance: Drama in Classroom and Beyond* in a national conference organized by Rajdhani College, University of Delhi, Delhi on 27 February 2019.

Special talk on *Indian Popular Fiction: Redefining the Canon* in a national conference organized by Department of English, Maharaja Agrasen College, University of Delhi, Delhi on 17 January 2019.

Special talk on *Redefining Marginalities* in a national conference organized by Department of English, Zakir Husain College (Evening), University of Delhi, Delhi on 16 March.

Special talk on *Towards an Understanding of Dalit Historiography* in a national conference organized by Department of History, Daulat Ram College, University of Delhi, Delhi on 13 February, 2019.

Special talk on *Translating Dalit Literature* in a national conference organized by Department of English, University of Delhi, Delhi on 13 March, 2019.

Special talk on *Pedagogical Approaches to Dalit Literature* in a day long workshop organized by Zakir Husain Centre for Education, School of Social Science, Jawaharlal Nehru University, New Delhi on 22 March 2019.

Negi, P. Presented paper on *Tribal Women and Traditional Life: A Study of the Role of Women in The Culture of Kinnaur in Himachal Pradesh* in three day conference at the International Seminar on 'The Contemporary Socio- Culture Scenario of Tribal Women in India- Challenges and prospects' at KIRTADS, Kerala Institute for Research Training & Development Studies of Schedule Castes & Schedule Tribes, Chevayur, Kozhikode, Kerala, India, 10 -12 October, 2018.

Panja, S.

Delivered five lectures on *Early Modern literature* as Visiting Fellow at Vidyasagar University, Midnapore, West Bengal from March 5-11, 2019.

Invited to deliver first Ratna Chatterjee Memorial Lecture at Loreto College, Kolkata, February 28, 2019.

Presented paper on *Lebedeff and Kendal: Two Contrasting Dramaturges on the Indian Stage* in International Conference on Gerasim Lebedeff (1749-1817) and the Dawn of the Indian National Renaissance at Peter the Great Museum of Anthropology and Ethnography (Kunstkamera) of the Russian Academy of Sciences, St. Petersburg, Russia, October 25-27.

Keynote address on *Indian Feminism in Praxis: The Situation Today* in International Conference on The 21st Century Indian Woman: Representations and Expressions at PGDAV College, March 12-13, 2019.

Raja, I.

Paper presentation on *Unfamiliar Ground: Gender, Family and Care in Contemporary Fiction*, in two-day conference on *21st century Indian Woman: Representations and Expressions*, PGDAV college, Delhi University, 12 March, 2019.

Presented paper on *In the Shadows of Cosmopolitanism: Agnes Heller and the Idea of Home* at a conference on Marxists Critical Theory in Eastern Europe, University of Sichuan, Chengdu, China, 18 Nov, 2018.

Invited paper presentation on *The Imagined Self: Migration, Care and the Attachment to Objects* at a two-day conference on Care, Migration, Gender: Ambivalent Interdependencies, Humboldt University, Berlin, 31st January 2019.

Sharma, A.

speaker on *Mary Shelley's Frankenstein: Recasting Romantic Discourse in the 1818 Text*, in 200<sup>th</sup> Anniversary of Mary Shelley's *Frankenstein*, India International Centre, New Delhi, 8<sup>th</sup> August, 2018.

Keynote address on *Romantic Poetics and the Idea of Asia* in Annual Lecture Series, Department of English. Maitreyi College, Delhi University, 21<sup>st</sup> February, 2019.

Presented paper on *Networks of Empire and the Story of Opium: British Romanticism, Orientalism and Ghosh's Ibis Trilogy* in Annual Conference of the British Association of South Asian Studies, The University of Exeter, United Kingdom. 19<sup>th</sup> April, 2018.

Chaired and Presented paper on *Travelling Texts: Circulating Histories and Historical Ruptures in Indonesia: Lakshmi Pamuntjak's Amba: The Question of Red* in International Conference Asia in Motion: Geographies and Genealogies at Association for Asian Studies, AAS-in-Asia, New Delhi. 6<sup>th</sup> July, 2018.

Invited Chair and Discussant. International Conference on *Culture, Language and Identity, Formation of the Diaspora in a Globalizing World with Special Reference to East and Central Europe and Russia*. The Department of Slavonic and Finn Ugrain Studies. Delhi University. 28<sup>th</sup> February, 2019.

Singh, V. K., Presented paper on *Shakespeare's Political Wisdom: A Study from an Indian Perspective* in International Conference on Politic, Power and Spectacles in Shakespeare, organised by the Shakespeare Society of India in collaboration with KMC and the Department of English DU on March 7th and 8th, 2019.

### **Students under Exchange Programme**

As part of the student exchange of the project “Writing the cosmopolitan imagination: Genre transactions in world literary space” under the Indo-German Partnership in Higher Education (IGP) with Potsdam University Anugya, MPhil Scholar, and Himani Kapoor, PhD Scholar, visited during 2018.

### **Number of M.Phil./Ph.D. Degrees Awarded (43)**

Ph.D.	-	07
M.Phil.	-	36

### **Faculty Strength (21)**

#### Sanctioned

Professors	-	7
Associate Professors	-	19
Assistant Professors	-	10

#### Filled

Professors	-	05
Associate Professors	-	09
Assistant Professors	-	07

#### Vacant

Professors	-	02
Associate Professors	-	10
Assistant Professors	-	03

### **Other Significant Information**

Aneja, A.

Vice-President and Chair, Advocacy of All India Confederation of the Blind, a major national self-help organization of the visually-impaired.

Member on the Advisory Committee of the Commissioner (Disabilities), Delhi Government.

Committee on the Mobility of PwD students, Department of Social Welfare, Govt. of NCT of Delhi

Member, Committee for Identification of posts for Persons with Disabilities, Nehru Yuvak Kendra Sangathan, Ministry of Human Resource Development, Government of India.

Antony, S. (2018) Member, judging panel for the Literature category of *The Global Undergraduate Awards* 2018 based in Dublin, Ireland.

Chattarji, S. (2015-2020). Convener, Centre for Studies in Violence, Memory, and Trauma (CSVMT), Department of English, University of Delhi, University Grants Commission-Department of Special Assistance III Programme, 2015-2020.

Dubey, Y.K. (2018). Member, judging panel for the Literature category of *The Global Undergraduate Awards* 2018 based in Dublin, Ireland.

Kumar, R. Member, Board of Studies, Central University, Mahendergarh, Haryana.

Panja, S. (2019) Visiting Fellow, Vidyasagar University, Midnapore, West Bengal from March 5 to March 11, 2019.

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## GERMANIC AND ROMANCE STUDIES

### Major Activities and Achievements

The Department of Germanic and Romance Studies organized annual International Seminar on Remembering and Forgetting: Perspectives on History and Memory, Department of Germanic and Romance Studies, University of Delhi, 7 – 9 March 2019.

### Honours/Distinctions

#### Prof. K. Aggarwal

Invited as Visiting Faculty to the University of Paul Valery-Montpellier 3 (March 11- April 1 2018).

External Examiner for purpose of promotion from Assistant Professorship to Associate Professorship, Brown University, United States.

Invited as Visiting Faculty to the University of West Brittany, Brest, France (March 22- March 24).

Member of the Consultative Committee of MOOC program for French, UGC-Human Development Center, University of Pondicherry.

#### Prof. M. Sawhney

One of 35 world Hispanists invited by Duques de Soria Foundation and King Phillip of Spain 26<sup>th</sup> -27<sup>th</sup> September 2018 for discussion on International Hispanism.

### Publications

Aggarwal, K. (2018). René Maran: une conscience intranquille *Interculturelle Francophonies*, no 33.

Irani, F. (2018). *Rangoli Anthology Tome 2 Book*.

Irani, F. (2018). Translation of a short story from Gujrati to French, Chandrakant Bakshi's

"Anaar" translated as "La Rebelle: in Kiran Chaudhary and N. Kamla: *Rangoli Tome 1: An anthology of short stories translated from various Indian Languages to French*, Goyal Publishers and Distributors Pvt Ltd.

Irani, F. (2018). Translation of a short story from Gujrati to French, Kundanika Kapadia's "Nyaya" translated as "Justice" in Kiran Chaudhary and N. Kamla: *Rangoli Tome 2 An anthology of short stories translated from various Indian Languages to French*. Goyal Publishers and Distributors Pvt Ltd.

Kumar, R. (2018). Dalla parte dell'inquirente: Microstoria e impegno civile. In *Leonardo Sciascia*. Goyal publishers and distributors Pvt. Ltd., New Delhi.

Kumar, R. (2018). Wars, borders, and enemies: Incessant phenomena of human society:

"*Wisdom Herald*", international multidisciplinary peer reviewed quarterly research journal, Vol. -IX-N0.-3, pp. 405-412.

Roy, T., Tavosanis, M. (2018). Il focalizzatore “anche” nei testi scritti di studenti con lingue indoeuropee come L1, in *Le lingue extra-europee e l’italiano: aspetti didattico-acquisizionali e sociolinguistici*, Atti del LI Congresso Internazionale di Studi della Società di Linguistica Italiana pp 323-238.

Roy, T., Tavosanis, M. (2019). Errori, sequenze e interferenze nell'apprendimento dell'italiano in India in *Proceedings of the AATI Conference in Palermo* [Italy], June 28-July 1, 2017. Section Pedagogy. AATI Online Working Paper

Sawhney, M. (2018). Latin American Travelers in Modern India in Choukroune, Leila et. al *Exploring Indian Modernities, Ideas and Practices*, Singapore: Springer, pp. 267-284.

#### **Number of Department teachers serving as:**

Member of editorial board – Three teachers in three journals

#### **Seminars Organized**

Annual International Seminar on the theme, ‘of Remembering and forgetting: perspectives on History and Memory’, 7 – 9 March 2019.

Irani, F. , HOT SKILLS: International Seminar cum Teachers training Program:, Jointly organised with Goyal Publishers and distributors Pvt Ltd., Institut francais en Inde (division for educational and cultural cooperation, embassy of France in India). 30th November-1st December 2018

#### **Seminar/Conference Presentations**

Aggarwal, K.

Presented paper on *La Renaissance africaine ou les voies diffractées de la recomposition du fait littéraire africain: de Francis Aupiais à Paul Hazoumé* at the International Colloquium on Presse et Littérature africaine, March 19-20, 2018, University of Paul Valéry-Montpellier 3 (Chaired session on Fiction, presse et politique: questions de genres).

Delivered lecture on *France et Afrique: Les enjeux d’une confrontation de Marcel Griaule à Hampâté Bâ* within the ambit of the Seminar on Semiotics in Context. Meaning between Man and Men - ‘Camus and Algeria: the making of a new political imagination’ paper presented at Conference on 'The Intellectual Geography of Albert Camus' organised by the Alliance Francaise of Delhi in collaboration with Jindal Global University on May 3, 2019.

Lecture delivered on *Identité et écriture dans Black Bazar d’Alain Mabanckou*», to Undergraduate students, March 29, 2018.

Irani, F., Resource Person for *Comment gerer son enseignement/son apprentissage: La fiche pedagogique*. (Classroom teaching and Learning Management: The Lesson Plan),2018

Kumar, R.,

Presented paper on *A critical analysis of sustainability of water resources and sustainable development in India* in a one-day international conference on “Sustainable Development goals (SDGs): Opportunity and Challenges in 2030 Agenda” Organized by Himachal Pradesh Institute of Public Administration (HIPA), Shimla on 15 March 2019.

Presented paper on *Human Rights- whose? A Real Humane Cause or An Agenda of Political Convenience* in one day International seminar on the theme of “Human Rights for the 21st Century in Asia and Africa: People’s Aspirations and Challenges” organized by The Centre for Conflict & Peace Research in collaboration with Department of Adult, Continuing Education and Extension, University of Delhi on 18<sup>th</sup> January 2019.

Presented paper on *Reconstruction of a new identity through the theatre of memory* by Leonardo Sciascia in a three-day international conference on *Of remembering and forgetting: Perspectives on History and Memory* by the Department of Germanic and Romance Studies, University of Delhi, 7-9 March 2019.

Panda, E. Presented paper on *Memory as a tool to shape "narrative identity" in Scholastique Mukasonga's Ce que murmurent les collines* in Annual International Seminar of the Department of Germanic and Romance Studies, University of Delhi on the theme: "Of Remembering and Forgetting: Perspectives on History and Memory" 7-9 March 2019.

Roy, T.

Chaired a session in the International Conference on "Imaginary Homelands" organized by the Department of Germanic and Romance Studies, University of Delhi, 2018.

Read the paper *L'italiano in India: quale tipo di bilinguismo? at III Convegno Internazionale di Linguistica e Glottodidattica Italiana* "L'italiano in contesti plurilingui: contatto, acquisizione, insegnamento. 2018

Sawhney, M.

Lecture on *The Narrative of the Mexico –United States Border* on 9<sup>th</sup> October 2018.

Presented paper on *Conversaciones latinoamericana con la India (Octavio Paz, Severo Sarduy y los contemporáneos Rodrigo Rey Rosa, Margo Glantz, Juan Alfredo Pinto Saavedra, Roberto Bolaño* in the Congress of IILI (International Institute of Latin American literature) Bogota, Colombia 12-15th June 2018.

Delivered talk on *Conversations on Education* at the Complutense University, Madrid. 2<sup>nd</sup> October 2018.

Delivered talk on *Spanish and Indian musical videos in the classroom* at University of Valladolid, 3<sup>rd</sup> October, 2018.

Delivered talk on *Gandhi and Education* at the Casa India, Valladolid, Spain, 2018.

Chaired a session at Department of Philosophy, University of Delhi on *Building bridges between Indian Philosophy and Latin American Philosophy*, 22<sup>nd</sup> March, 2018.

Delivered talk on *Jenni Rivera and her Corridos* at School of Foreign Languages, University of Mysore, 1<sup>st</sup> - 2<sup>nd</sup> March 2019.

#### **National/International MoUs Signed (9)**

University of Montpellier-III (French)

French-speaking Universities Agency (AUF)- (French)

University of Wuppertal (German)

Freie University, Berlin, Germany (German)

Potsdam University, Germany (German)

Vienna University, Germany (German)

University of Santiago de Compostela, Spain (Spanish)

University of Navarra, Pamplona, Spain (Spanish)

University of Turin, Italy (Italian)

#### **Extension and Outreach Activities**

Confluence 2019 on Francophone day programme, organized from 28 Feb. to 1 March 2019.

The guests of honour Mr. Dominic Marcotte, Director of Quebec Consulate, Ms. Maryline Laidin from French Embassy, Mr. Emile M. Wepesi and Mr. Mucyo Rutishisha from Rwanda Embassy graced the occasion. Around 300 students from different colleges and universities competed in various competitions such as poetry, song, theatre, cuisine, quiz, essay writing, poster making etc

Portuguese Olympiads organized on 1 February 2019.

Spanish day Programme organised on 30 March 2019.

**Number of M.Phil./Ph.D. Degrees Awarded (11)**

**Number of Ph.D. Awarded (3)**

Spanish	-	01
Italian	-	01
German	-	01

**Number of M.Phil. Awarded (8)**

Spanish	-	01
Italian	-	02
German	-	02
French	-	03

**Faculty Strength (34)**

Permanent	-	12
Adhoc	-	13
Guest	-	09

**Other Significant Information**

Lecture on "The Concept of Similarity in Comparative Literature" by Prof. Anil Bhatti, Professor Emeritus on 22 February 2019.

Lecture on "The Craft of Interpretation" by Malini Gupta, March 2019.

Talk on the life and work of Portuguese Nobel Prize in Literature (1998), 15 February 2019.

Talk by Prof. Almuth Degener on New Perspectives on Translation Theory and the Politics of Translation, on 01.03.19.

The Department of Germanic and Romance Studies, University of Delhi and Hachette India organised the launch of The Gollancz Book of South Asian Science Fiction published by Hachette India, 2019 and edited by Dr. Tarun K. Saint on 2 March 2019. There was a reading by the authors - Manjula Padmanabhan, Keki Daruwalla, Rukmini Bhaya Nair, Sami Ahmed Khan, Suraj (Clark) Prasad, Maya Joshi, Mohammad Salman and Sumita Sharma and animated discussion with the audience.

The Department of Germanic and Romance Studies in collaboration with The M.S. Merian – R. Tagore International Centre of Advanced Studies (ICAS:MP)\* organised a Lecture by Prof. Hartmut Rosa Director, Max Weber Center for Advanced Cultural and Social Studies, Erfurt, Germany on "Social Acceleration, Alienation and Resonance: A New Theory of Modernity" (<https://www.versobooks.com/blogs/2158-social-acceleration-and-the-need-for-speed>) on 5<sup>th</sup> March, 2019.

Mr. Shiv Kumar Singh, Director of the Center for Indian Studies in the University of Lisbon talked on "Indo-European Relations through Portuguese and Hindi" on Tuesday, 12th March 2019.

Around 180 students competed in various competitions such as poetry, song, theatre, quiz, essay writing, poster making etc.

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## 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 promote' 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.

The Department has organized two National-level Seminars under DRS-SAP, a major Research program, funded by U.G.C. for 'Hindi Sahitya Ke Itihas Ka Punarlekhan and one National Seminar on 'Adivasi Sahitya, Sanskriti Aur Kala: Chunautiyan Evam Sambhavnaein' with collaboration of Indira Gandhi National Centre for the Arts (IGNC), New Delhi; 12-13 April, 2018.

### Publications

- Mishra, A. (2019). *Asthi Fool*, Rajkamal Prakashan, pp. 286.
- Mohan (2019). Hindi seekhane wale koryai vidyarthiyon ka adhigam, *Vyavhar Aur Apekshayein. Kala Sankay Shodh Patrika*, Aligarh Muslim University.
- Mohan (2019). Saussure Ki Bhashik Prateek Sambandhi Avadharana; Assonance. *A Journal of Russian & Comparative Literary Studies*, University of Calicut
- Patel, R. (2018). Mukutdhar Pandey: Ek Kriti Vyaktitva. In Renu, R. (ed) *Aajkal*, pp 17-20.
- Patel, R. (2018). Ramkavya Parampara Aur Ramchandrika. In Minhas, S.S. (ed.). *Jeevan, Sahitya Evam Kala Mein Ram*. Issue 2018, pp 129-137.
- Patel, R. (2018). Hindi Mein Chhayawad. In Singh, M.P. (ed.). pp. 109-120
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- Patel, R. (2019). Samajik Kranti Ke Agradoot, Guru Ghasidas. In Bechain, S.S. (ed.). *Samaj Sahitya Ke Prashna Aur Dalit Chetna*. pp 83-89.
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- Singh, S. Baki. Hain Purvagrahon Ke Andhere', Newspaper Amar Ujala, Delhi; 11 November, 2018
- Singh, S., Kab Tak Rahega Andhera, Newspaper Amar Ujala, Delhi; 23 December, 2018
- Tiwari, V. (2018). *Acharya Hazariprasad Dwivedi Ke Shreshtha Nibandh*. Lokbharti Prakashan, . pp. 224.
- Tiwari, V. (2018). *Nazim Hikmat Ke Desh Mein*. Aadhar Prakashan, Panchkula pp. 120.
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- Tiwari, V. (2018). Vishwavidyalayon se Aise Manushya Taiyar Hon Jo Apne Parivesh Aur Apni Asmita Ke Prati Jagrat Hon. pp. 70-75.
- Tiwari, V. (2018). Parampara, Adhunik Aur Samkaleen Hindi Kahani. In Choubey, S. (ed.). *Swapna Aur Yatharth; 2018*, AISCET Publication, Bhopal, pp399-409.



Tiwari, V. (2019). Sampradayikta Ke Sawal, Yuva Peedhi Aur Samkaleen Hindi Kahani. In Ravi, P. (ed.), Gopalkrishnan, V.G. (ed.). *Sampradayikata, Dharmannirpekshata Evam Sahitya, 2019, Ananya Prakashan, Delhi*, pp. 86-114.

Tiwari, V. (2019). Yathartha se Vaicharik Aur Samvedanatmak Sangar Ka That. In Arvindakshana, A. (ed.). *Hamare Samay Mein Muktibodh, 2019, Vani Prakashan, Delhi*, pp. 219-225.

#### **Seminar/Conference Presentations**

Singh, S.

Lecture on *Hindi Mein Dalit Sahitya Ka Yogdan*, Dayal Singh College, Delhi; 05 September, 2018

Lecture on *Samkaleen Vimarshon Mein Stri. Dalit Aur Adivasi Sahitya*, Motilal Nehru College, Delhi, 2018

Lecture on *Swatantrata Ki Seemayein*. Sahitya Academy, Delhi, 2018

Tiwari, V.

Keynote speaker on *Kathetar Gadya Aur Kahani Banmali Srijan Peetha*, Bhopal; 17-18 July, 2018

Lecture on *Hindi Katha Sahitya Ka Badalta Paridrishya*, Jesus and Mary College, D.U., Delhi; 28 January, 2019

Lecture on *Hindi Sahitya Mein Vartman: Samaj, Sanskriti Aur Rajneeti*, Jamia Millia Islamia University, Delhi, 01 March, 2019

Lecture on *Sahityik Patrakarita Ki Chhunautiyan Aur Bhavishya*, Bharteeya Bhasha Parishada, Kolkata; 16-17 February, 2019

Chief Guest on Hindi Divas, NGT, New Delhi; 14 September, 2018.

#### **Number of M.Phil./Ph.D. Degrees Awarded (49)**

Ph.D. - 23

M.Phil. - 26

#### **Faculty Strength (20)**

Permanent - 20

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### **LIBRARY AND INFORMATION SCIENCE**

#### **Major activities and achievements**

The department celebrated its 72<sup>nd</sup> Annual Day.

#### **Honours/distinctions**

Prof. R.K. Bhatt

Best Teacher Award by Special Library Association -Asian Chapter.

Best Teacher Award by Society for Promotion of Libraries Uttar Pradesh.

Dr. K.P. Singh

DLA - Professional Excellence Award for Working LIS Leader.

SPLUP-Best Teacher Award-2018.

SLA-Best Teacher Award-2018

## Publications

Asmi, A. & Margam M. (2018). Use of Social Bookmarking Sites by Research Scholars of Central Universities in North India. *Annals of Library and Information Studies* 65 (2), pp.105-111.

Bebi, Kumar, S. (2018). Research Output of Women Faculty Members in Physics: A Scientometric Study of Select Central Universities. *SRELS Journal of Information Management*. 55 (2), pp. 92-97.

Bajpai, V.K. & Margam, M. (2019). ICT Skills and Competencies of Library and Information Science Professionals working in College Libraries, University of Delhi: A study, *Library Philosophy and Practice* 2275, pp1-29.

Bebi & Kumar, S. (2018). Research Output of Indian Women Scientists in the field of Physics and Astronomy: A Scientometrics study. *Library Philosophy and Practice*.

Bhatt, R.K. et. al. (2018). *Academic Libraries*. Delhi: K.K. Publications.

Bhatt, R.K. (2018). *The Survival Kit for Libraries: A Marketing Approach*. Delhi: K.K. Publications.

Bhatt, R.K. & Singh, M.P. (2019). *Ranganathan's Classified Catalogue Code: A Practical Manual*. Delhi: Narendra Publishing House..

Bhatt, R.K. & Gupta, D. (2018) *Essentials of Marketing Management in LIS*. *Library Philosophy and Practice*.

Bharti, S.K. & Margam, M. (2019). Content Evaluation of Jawaharlal Nehru University and Banaras Hindu University Library Websites in India. *Library Philosophy and Practice* 2290, pp 1-23.

Choudhary, P.K. & Singh, K.P. (2018). Scientometric Study of Science and Technology Publications of Delhi Technological University. *Journal of Library and Information Science* 43(1), pp. 76-89.

Dar, S.A. & Margam, M. (2018). Digital Nomadism: Students Experience of Using Mobile Devices in Delhi Metro. *Library Hi Tech News*. 35(7):, pp 5-10.

Dar, S.A. & Margam, M. (2018). Leveraging Mobile Devices in Enhancing Information Services: Perception of Students in Different Universities of Delhi. *World Digital Libraries* 11(1), pp 29-40.

Gupta, P. & Margam, M. (2018). Application of Electronic Security Systems in Select University Libraries of Northern India. *Library Philosophy and Practice* 2167 (2018): 1-17.

Gupta, D. & Margam, M. (2018). Information Seeking Pattern of Science Research Scholars in the University of Delhi in Digital Environment: A Study. *Journal of Library and Information Science* 43(1-2), pp 58-75.

Joshi, J.P & Singh, K.P. (2018). A Study of Use and Need of Consortia-Based Resources in Selected Libraries of National Capital Region. *Journal of Advancements in Library Science*. 5(3), pp. 71-78.

Joshi, J.P & Singh, K.P. (2018). Study of Use and Need of Consortia based Resources in selected Libraries of National Capital Region: A Review Literature. *International Journal of Research in Engineering, IT and Social Sciences*. 8(2), pp. 224-237.

Kimi & Meera. (2018). A Multimedia Perspective of Sangeet Natak Akademi and Prasar Bharati Archives: A Comparative Study. *ISST Journal of Advances In Librarianship*, 9(1) pp 45-56

Kimi & Meera. (2018). Storage and Retrieval of Multimedia Resources in Multimedia Libraries: A Study. *IASLIC* 62(4), pp. 105-126

Kumar, M. & Srivastava, G.G. (2018). Plagiarism awareness: A study of Jamia Millia Islamia, Delhi, *Journal of Library and Information Science* 43(1) 2018, pp.163-174.

- Kumar, M. & Chand, M. User study of awareness about plagiarism of Dr. B. R. Ambedkar central library of Jawaharlal Nehru University, Delhi. *Library Herald* 56(4), pp.501-514
- Kumar, M. & Shukla, A. (2018). Marketing of Library Products and Services by Dr. Zakir Hussain Library of Jamia Millia Islamia, Delhi, *Journal of Library and Information Science* 43(2), pp. 327-341.
- Lamba, M. & Margam, M. (2019). New Paradigm in Library 2.0: Sentiment Analysis of Twitter. In Emerging Trends for SMART Libraries. Eds. Sonal Singh, B.K.Singh and Neelam Thapa. New Delhi: Shree Publishers and Distributors. (1), pp. 195-201
- Lamba, M. & Margam, M. (2018). Application of Sentiment Analysis in Libraries to provide Temporal Information Service: A Case Study on various facets of productivity. *Social Netwoking Analysis and Mining (Springer)*. pp63-75.
- Lun, H. & Margam, M. (2018). Library and Information Science Blogs in India: An Evaluative Study. *Library Philosophy and Practice* 2091 ,pp 1-16.
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- Meera & Kimi (2019). A model for evaluating multimedia libraries of Delhi. Vidya warta: peer reviewed *International refereed research Journal* 30(2) 2019. Pp. 35-49.
- Meera & Ruchi (2018). Collaboration Trends of Articles Published in Annals of Library and Information Studies, *Journal of Library and Information Science* 43(1), pp141-162.
- Singh, M. & Bhatt, R. K. (2018). Research Scholars Attitude Towards the Use of Social Media in Promotion of Library and Information Sources and Services: A Study of University of Delhi, Delhi. *Library Philosophy and Practice*.
- Satija, M.P, Daniel, Martinez, A. and Manuel, Rosa San Segundo Ed. (2018). Library Classification and SR Ranganathan: A Guide. *Satija Research Foundation for Library and Information Science (SRFLIS) and ESS ESS Publications*
- Satija, M.P, Martinez, A. and Swain, N.K. (eds). (2019). Plagiarism: An International reader. ESS Publications: New Delhi. P 1-363.
- Satija, M.P., Singh, S. & Chander, H. (eds.) (2018). Punjabi Reference Sources: A Descriptive Guide. Satija Research Foundation for Library & Information Science: New Delhi. Pp. Xvi, 429.
- Singh, K.P, Sharma, R.K. Bhatt, R.K. Meera & Singh J.N. (eds.) (2019). Proceeding of the International conference, 3rd DLA-SRFLIS summit: Digital Age Strategies in Information Management for Sustainable Librarianship. Gupta Electrostat. Organized by DLA and SFRLIS, from 19-20 April 2019.
- Singh, K.P et. al. (2019). Proceeding Papers on International Conference 'Digital Age Strategies in Information Management for Sustainable Librarianship'. *Satija Research Foundation for Library and Information Science: New Delhi*. P.538.
- Singh, M. & Bhatt, R.K. (2018). Information Seeking Behavior of Research Scholars of University of Delhi in *Digital Age: A Study: Journal of Library and Information Science*, 43(1) ,pp 18-30.
- Singh, K.P & Tiwari, N. (2018). Recruitment and Selection of LIS Professionals in Management Libraries in Delhi NCR: A study. *Gyankosh - The Journal of Library and Information Management*. 9(2) pp1-13.

- Singh, K.P. (2019). Choice Based Credit System (CBCS) in LIS Courses: Entering into New Vista of Higher Education System. *Library Herald* 57(1)pp1-18.
- Singh, K.P. (2019). Intellectual Property Rights: Inevitable for Creativity Protection. *Library Herald*. 57(1),pp 73-83
- Singh, K.P, Chander, H. and Shukla, A. (2018.) Library and Information Science (LIS) Journals in India (1912-2016): A Bibliometric Study. *International Journal of Knowledge Content Development & Technology (IJKCDT)*. 8(2), pp. 69-85.
- Singh, K.P & Dey, T. (2018). Bibliometric Study of Indian Journal of Chemistry Section-A: A Bibliometric Study. *IASLIC Bulletin*.63(4), pp.195-206.
- Singh, K.P. (2018). Historical Glimpses of Department of Library and Information Science, University of Delhi and Remembering the first generation of Teachers and Alumni: Preserving its Diversity. *Library Herald*. 56(2) ,pp197-208
- Singh, S. (ed.) (2018). Guru Nanak: A Webliography Open Access Books in English, Punjabi & Hindi. *Satiya Research Foundation for Library and Information Science (SRFLIS)*, New Delhi. Pp. xvi, 177.
- Singh, K.P & Tiwari, N. (2018). Human Resource Development with Particular Reference to Human Resource Planning in Management Libraries in National Capital Region in India: A Descriptive Study. *Journal of Library and Information Science*. 43(1), pp. 1- 17.
- Singh, K.P. (2018). Annual Account of the Academic and Research Activities (2017-2018) of the Department of Library and Information Science, University of Delhi: A report. *Journal of Library and Information Science*. 43(1), pp. 175-191.
- Sharma, R. & Margam, M. (2018). Educational Use of Mobile Devices: A Survey of Mobile Devices Use by Library and Information Science Students in Central Universities of Uttar Pradesh, India. *Journal of Knowledge & Communication Management* 8(1), pp. 20-32.
- Singh, R. & Kumar, S. (2018). Information Literacy Competency of Social Science Researchers in Different Periods of Research: A Study. *Journal of Library and Information Science*. 43(1), pp. 123-140.
- Singh, R. & Kumar, S. (2018). Researchers' awareness and satisfaction from university library resources and services: a prerequisite of information literacy competency. *Journal of Indian Library Association*, 54(3), pp. 149-161.
- Singh, R. & Kumar, S. (2018). Assessment of Information Literacy Competency of Social Science Researchers. *Library Herald*, 56(4), pp. 481-491.
- Singh, R. & Kumar, S. (2018). Information Literacy Competency Levels of Research Scholars in History: Assessment and Mapping. *Journal of Information Management*, 5(2), pp. 46-54.
- Singh, R. & Kumar, S. (2019). Information Literacy Competency Level of Social Science Researchers with Respect to Information Use Ethics: A Study. *DESIDOC Journal of Library and Information Technology*. 39(2), pp. 101-108.
- Singh, R., & Kumar, S. A Study of Information Literacy Competency of Social Science Researchers in Different Period of Research. *Journal of Library and Information Science* 43(1) pp123-140.
- Singh, R. & Kumar, S. (2018). Researchers' awareness and satisfaction from university library resources and services: a prerequisite of information literacy competency. *Journal of Indian Library Association* 54(3), pp. 149-161.
- Singh, R., & Kumar, S. Assessment of Information Literacy Competency of Social Science Researchers. *Library Herald*, 56(4), pp. 481-491.

Singh, R., & Kumar, S. (2018). Information Literacy Competency Levels of Research Scholars in History: Assessment and Mapping. *Journal of Information Management*, 5(2), pp. 46-54.

Singh, R., & Kumar, S. (2019). Information Literacy Competency Level of Social Science Researchers with Respect to Information Use Ethics A Study. *DESIDOC Journal of Library & Information Technology*, 39(2), pp. 101-108.

Singh, K.P & Gupta, Divyanshu (2019). Use of e-Resources by Research Scholars: A Case Study of Central Reference Library, University of Delhi, Delhi. In *Relevance of Ranganathan's Philosophy in the 21st Century*. Edited by Prof. MP Singh and Dr. Sharad Kumar Sonker. The Book Line Publishers: New Delhi. P. 10-20.

Singh, K.P & Preeti (2019). Information Seeking Behaviour of Students in Economics: A Case Study - Festschrift in Honour of Prof. V. P. Khare, Edited by Sonal Singh and others. Shree Publishers and Distributors: New Delhi. pp. 600-611.

Tiwari, N, & Singh, K.P. (2018). Human Resource Development in libraries: A literature review. *Library Herald*. 56(2), pp. 242-254.

Verma, S. & Margam, M. (2019). Altmetric analysis of highly cited publications on digital library in Brazil and India: A comparative study. *Library Philosophy and Practice* 2273, pp1-20.

Verma, S. & Margam, M. (2019). Publications in Sports Psychology: An Altmetric Study. In Singh, S., Singh, B.K. & Thapa, N. (eds.) New Delhi: Shree Publishers and Distributors: 439-454 (Vol. No.2).

Verma, S. & Margam, M. (2018). Altmetrics Tools to Measure Research Impact Beyond Traditional Bibliometrics. In *Changing Digital Landscape in SMART Environment*. Eds. Rama Nand Malviya et al. New Delhi: Orange Books International, pp. 305-309.

Verma, S. & Margam, M. (2018). Highly Cited Publications in Digital Library in India (1989-2017): An Altmetric Analysis. In *Innovative Librarianship Through ICT Tools and Technology*. Eds. Manoj Kumar Verma, Chakraborty, N and Devi, Krishna. New Delhi: Shree Publishers (2018), pp182-201.

Walia, P.K. (2018). Information seeking behaviour of undergraduate students in digital environment: A case study of Shaheed Sukhdev College of Business studies, (SSCBS) *SRELS Journal of Information Management* 55(2), pp.108-113.

### **Conference Proceedings**

Kumar, M. & Bhatt, R.K. 2019). Marketing the Library: A Study of Marketing of Library Products and Services by Dr. B.R Ambedkar Central Library, Jawahar Lal Nehru University, Delhi. *Rethinking Libraries and Librarianship*, conference proceedings of ICoASL 2019. pp. 223-234.

Singh, R. & Kumar, S. (2019). Information Literacy Competency assessment and Mapping in Legal Research. In. Priya Rai and Akash Singh (ed.) *Digital Transformation Strategies and Trends in E-Learning: Privacy, Preservation and Policy*, Segment Books, New Delhi, 2019. pp.464-476.

Singh, K. P. & Bhatt, R.K. Awareness about Plagiarism: A Case Study of Jawahar Lal Nehru University, Delhi. In Rai, P. & Singh, A. (eds.). In *Proceedings Digital Transformation Strategies and Trends in E-Learning's Privacy preservation and Policy*. pp 699-711.

Singh, KP & Bhatt, R.K (2018). Awareness about the Plagiarism: A case study of Jawaharlal Nehru University, Delhi. In *International Conference on Digital Transformation: Preservation, Policy and Privacy*. Segment Books: New Delhi, pp699-711.

Verma, S. & Margam, M. (2018). A Study of ResearchGate Profiles of the Medical Science

Department of University of Delhi: An Altmetric Perspectives. In *ICD: Preservation, Policy and Privacy*. Eds. Priay Rai, Akash Singh. Segment Books

Choudhary, P.K. & Singh, K.P (2018). Core and Collaborative Research Outputs in S&T: A Case study of NSIT. In NIFT-BOSLA National Conference on Modern Librarianship: Opportunity and Challenges. NavVishnu Publications: Ajmer, Rajasthan. pp 511-521. ISBN: 9788193330746

Choudhary, P.K. & Singh, K.P (2018). Core and Collaborative Research productivity during 2006 to 2015: Case study of Delhi Technological University. In Developing Smart Libraries: Changes Challenges, Issues and Strategies. Asian Library Association: New Delhi.,pp 439-446.

Dey, T. & Singh, K.P. (2018). Indian Journal of Chemistry Section B: A bibliometric study. In Proceedings of National Conference on ERMED. Digital Health India: A Reality. Allied Publishers: New Delhi. pp. 200-220.

Joshi, J.P & Singh, K.P (2018). Using consortia-based resources in selected libraries of Delhi NCR. In Relevancy of Mahatama Gandhi's Vision in Knowledge Management and Digital Libraries Today. Gautam Book Centre: Delhi. pp 19-37.

#### **Number of M.Phil./Ph.d. degrees awarded (5)**

Ph.D. - 01

MPhil.: - 04

#### **Faculty strength (7)**

Permanent - 07

#### **Other Significant Information (5)**

Madhusudhan, M. (2018)

Conducted Workshop on Plagiarism in Research at 6th Indian Social Work Congress 2018 (ISWC 2018), University of Delhi, Delhi, Date: (02 November 2018).

Delivered Invited Lecture on Mobile Library Services: Big ideas on Small Devices at NASSDOC, Delhi, Date: (16 August 2018).

Delivered Invited Lecture on Digital Libraries: User Perspectives and Institutional Strategies at BPST, Parliament of India, Delhi, Date: (12 July 2018).

Jury Member Ideal Teaching Awards Programme (ITAP) 2018 Hyderabad, Date: (02 October 2018).

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## **LINGUISTICS**

### **Major Activities and Achievements**

The Department established in 1963 with the introduction of a Diploma Course, now offers M.A., M.Phil. and Ph.D. and two Post Graduate Diplomas. The department received SAP status in 1988 and since 2010 it has been a centre for Advanced Studies (CAS). The Department has a Linguistics Lab utilized for teaching & research on Phonetics and Sociolinguistics. It also houses a small Library with many rare books. The department has recently restructured and revised its syllabus for its various programs. It aimed at strengthening training in core areas and diversifying elective areas. It also provides a balance between theoretically and empirically driven research. Some of our students have been awarded Fulbright fellowships

### **Honours/Distinctions**

Dr. Gail Coelho received an award from the Dravidian Linguistic Association of India for the best monograph on Dravidian tribes for her book "Annotated texts in Betta Kurumba", which was published by Brill (Netherlands) in October 2018.

Dr. Shobha Satyanath was invited to deliver a plenary talk at GloSoc2 (Leiden University, Netherlands).

## **Publications**

Bhattacharya, Tanmoy. (2018). Disability Studies as Resistance: The Politics of Estrangement. In Anita Ghai (ed.) *Disability in South Asia: Knowledge and Experience*, pp 75-98.

Bhattacharya, Tanmoy. (2018). Pronominalisation in south Asian languages: Of people and their actions. *Nepalese Linguistics*, 33(1), pp 60-68.

Bhattacharya, Tanmoy. (2018). Being Human, Again, Part 2. *neScholar* 4(1), pp 44-53.

Coelho, Gail. (2018). *Annotated texts in Betta Kurumba*. Netherlands: Brill publishers

Coelho, Gail. (2018). Complex predicates in Betta Kurumba. *Journal of South Asian Languages and Linguistics* 5(1),pp 23-77.

Satyanath, Shobha. (2018). Kohima: Language variation and change in a small but diverse city in India. In Dick Smakman and Patrick Heinrich (eds.), *Urban Sociolinguistics: The city as a linguistic process and experience*, pp 95-112.

## **Number of Department teachers serving as:**

Editor(s) -Two teachers serving as Chief Editor/ Editor/Associate Editor in three journals

Member(s) of Editorial Board-Two teachers serving as member in four journals

## **International Research Collaborations**

Shobha Satyanath Collaborator in a project on World Englishes with Kanda University of International Studies, Japan. The project developed modules for Indian English: Phase I (preparation of the modules) and Phase II (filming of the modules) (2018-2022).

## **Major Research Projects**

UGC Major Research Project, Linguistic Variations across six Dialects of Meiteilon, 2015-18, Tanmoy Bhattacharya, Rs.11,99,400

## **Seminar/conferences Organised**

Total number of seminar organised -11

Andesha Mangla. The role of Indian Sign Language in deaf education, October, 2018.

Ishani Guha, Ph. D. scholar, Massachusetts Institute of Technology, USA. Numerals expressing various concepts of singularities and pluralities. 16th November, 2018.

Ashwini Vaidya (IIT, Delhi). On computational Linguistics. May 16-17, 2019.

Bajaj, Manasi. Different Aspects of Puniubi Phonology. April, 2019.

Cowie Claire, Lecturer University of Edinburgh. UK. Local and global trends in the English accents of international students. 6th March, 2019

Harish Lokhun, Regional Manager Recruitment for Central and South Asia, University of Edinburgh, UK, Workshop/Interaction, 6th March, 2019

John Peterson, Christian-Albrechts-UniversiHit zu Kiel, Germany. Jharkhand as a Sprachbund? Munda influence on Indo-Aryan in eastern central India. 1st May, 2019.

Junji Yamabe, Faculty member, Notre Dame Seishin University, Okayama, Japan, The double objective-case constraint in Odia, 29th March, 2019.

Pabitra Sarkar, Retired Professor of Jadavpur University and Ex-Vice Chancellor, Rabindra Bharati University, Bangla Phonology, 26th March, 2019.

Dr. Seunghun J. Lee., Associate Professor, International Christian University, Tokyo, Japan, Phonetics and phonology of segment-tone interaction. 8<sup>th</sup> March 2019.

Sreenivasa Murthy, Former Professor of Sanskrit and Principle, MES College, Bangalore. Meaning in Indian Grammatical Traditions, 25 April, 2019.

### **Presentations (National / International)**

Bhattacharya, Tanmoy.

“The "Missing" Noun as Spatial Anchorage in Deixis, 40th ICOLSI, CIIL, Mysore, 5th December, 2018.

Spatial deixis and double-definiteness in Meiteilon, 39th Annual Conference of Linguistic

Society of Nepal, Tribhuvan University, Kathmandu, 27th November, 2018.

An apparent case of double definiteness in a Tibeto-Burman language, Nominal at the Interfaces Conference, Sogang University, Seoul, 3rd November, 2018.

Agreement Variation in Adverbial and Relative Participles in Hindi-Urdu, SALA 34, University of Konstanz, Germany, 20th June, 2018.

Panel discussion on ‘The Types and Token’ as the 117th episode of SynTalk, recorded in Mumbai, 9th June, 2018

Coelho, Gail

‘Innovations affecting causativizer \*-ppi ~ \*-pi [-wi] in Betta Kurumba’, 46<sup>th</sup> All India Conference of Dravidian Linguistics, Department of Linguistics, Jadavpur University, Kolkata, 21-23 June, 2018.

Satyanath, Shobha

Urbanization and the rise of new plurilingualism: Implications for theory and methods of sociolinguistics, Plenary talk, GloSoc2 (Globalising Sociolinguistics Communicating in the City), Leiden University, Netherlands, 13-15 December, 2018.

Mapping English in India in time and space. Tokyo University of foreign Studies, Japan, 6<sup>th</sup> July, 2018.

Multicultural India and the Indianness of English. Kanda University of International Studies, Japan, 10<sup>th</sup> July, 2018.

Coexisting in a multilingual urban landscape: A case study of Delhi. AAS-2018, Panel on Language choice and identity in South and Southeast Asia. Washington D.C., March 22-25, 2018.

Dialect contact and multiple grammars. NWAVAP 5, The University of Queensland, Brisbane, Australia, February 1-3, 2018.

Indian perspectives on bilingualism. Linguistics Department, Cornell University. Invited Talk jointly hosted by Inequality cell, Cornell University, Ithaca and South Asia Studies, Syracuse University, March 28, 2018.

### **Other Inter-Institutional Collaboration**

Continuing collaboration with Hankuk University of Foreign Studies, South Korea as a part of ARG- (Brics+7) program under which Students from the University come 2-3 times a year for Hindi Teaching and Indian Studies program.

### **Students under Exchange Programme**

Students awarded Fulbright fellowships (FLTA)



### **Placement Details (Number and percentage of students placed)**

Number of students placed: 06

Number of Companies visited for campus recruitment: 1

### **Extension and Outreach Activities**

Shobha Satyanath associated with the Zomi community, since 2012, in Manipur (also located in the bordering Myanmar) helps and guides 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, and developing literature in their language. The first phase of documentation has been published by the Zomi Language and Literature Society (ZOLLS).

Tanmoy Bhattacharya contributed to the documentation of cultural heritage (Manipur- instrument playing tradition by filming a very senior player at her advanced age) with the help of Sahapedia UNESCO Fellowship (Sept.-Dec., 2017).

As part of Sociolinguistics, students undertake fieldwork aimed at studying the local neighbourhoods. This brings the local and the University communities together.

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

Ph.D. 02

M.Phil. 05

### **Faculty Strength**

Associate professor - 3

Assistant professor - 1

Adhoc-Assistant Professors - 3

Vacant - 10

### **Other Significant Information**

Shobha Satyanath has, over the years, built and continuing to build sociolinguistic Speech corpora of natural language usage.

- (i) Guyanese English spoken by a community of Indian origin (who migrated to British Guyana during 1800-1921)
- (ii) Assamese (Geographic varieties)
- (iii) Nefamese
- (iv) Nagamese
- (v) Bengali (Geographic varieties)
- (vi) Hindi- English
- (vii) Indian English
- (viii) Many other languages of India

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## MODERN INDIAN LANGUAGES AND LITERARY STUDIES

### Major Activities and Achievements

The Department of Modern Indian Languages and Literary Studies conducted 20<sup>th</sup> Endowment Lecture on “Subramaniya Bharati: The Making of a National Poet” on 04<sup>th</sup> April 2018, and Endowment Lecture on “Mahakavis Bharati and Vallathol” on 31<sup>st</sup> January 2019. A special lecture entitled Charya: A Philological Study in Bengali, Recent trends in Medieval Bengali Studies, The Early Phase of Modern Bengali Drama, Okakura Tenshin (Kakuzo) and Rabindranath Tagore in Shantiniketan: Beginning of Tagore’s Centre for International Exchanges, respectively on 14, Aug., 30 Aug., & 26 Apr. 2018 was organised. Weekly Seminar on Wednesdays where faculty members presented papers on the topic of their interest area and Monthly Seminar under the Department Research Forum in which Ph.D. and M.Phil. Research Fellows presented papers on their areas of research on last Friday of every month was organized.

### Publications

Barman, S.K. (2019). *Bhaoyaiya Sangeetenari*. In *Munshi Mohammad Younus and Almohasina Mojammel* (Eds.). Bangla Sahitya Path, Path Kendrikata O Pathakpratirikriya, Vol-II. pp. 121-127.

Chakraborty, P. (2018). History of Bengali Literature: Elite Discourse of Subaltern Studies, *Edu World*, 8(3), pp. 143-152.

Das, R. (2018). Bishnu Prasad Rabha: Aspects of the Life and Works of a Legend. In D.P

Chattopadhyaya (Ed.). History of Science Philosophy and Culture in Indian Civilisation Assamese Language Literature and Culture, (Vol. VI, Part 10), pp 299-313

Devi, U. (2018). (Trans.). *Muthuppalani's Rathika Santawanam*. Chennai: Kavya.

Devi, U. (2018). *Mulaippari Catanku Panmuka Kotpattu Anukumurai*. Chennai: Kaavya.

Devi, U. (2019). Bridal Mysticism: Rejection of the Worldly Love. In L. Darwin and G. Palanirajan (Eds.). *Recent Trends in Language and Literature*. Kannur: Pushthaka Bhavan.

Devi, U. (2019). Subrabharathi Maniyanin Sirukathaikalil Pin Naveenathuvam. In Rama-pandian (Ed.). *Subrabharathi Maniyanin Padaippukalai*, pp. 122-128.

Devi, U. (2019). Therikatha - Athi Penkalin Alagiyal. In S. Thennarasu and N. Vijayan (Eds.). *Landscapes of Linguistics and Literature*, Chennai: Thamizhaga Institute of Educational Research and Advancement.

Devi, U. (2019). Tolkappiyar Marabiyalil Uyirkalin Pakupaadu - Panmuga Nokku. *SHANLAX International Tamil Journal*. Vol. 3. ,pp. 128-134.

Pattanaik, P.C. (2018). New Perspectives in the Study of Tribe, Tribal lore, and Tribal life. In Sabita Pradhan (Ed.), *Tribal Literature and Language*, pp. 121-132

Rajagopal, G. (2018). Interpretation and Transcreation of Kamattuppal of Tirukkural: Limits and Liberties. In G. John Samuel, G. (Ed.). *The Souvenir of the Second International Conference on Thirukkural – Thirukkural Beyond the Frontiers of Tamil India*, pp. 113-130)

Singh, A.H. (2018). Culture, Identity and Literary Tradition: A Study in Manipuri Literary and Cultural History. *Jnanapradipa - Journal of the Department of Modern Indian Languages and Literary Studies*. Vol. 6.,(pp. 89-97

Singh, A.H. (2019). Ramkatha in the Textual and Performance Traditions of Manipur, In Arzuman Ara, Dhurjjati Sarma & Bhaskar Jyoti Gogoi (Eds.). *Narrative Cultures and Textual Traditions of North-East India* (A Collection of Essays in Honour of Prof. Kailash C. Baral,pp. 32-41

Venkata R.G. (2018). Parishodhana Vidhanam Pranianam Kramam (in Telugu). In Gundemeda Srinivasa Rao, (Ed.), *Vyasa Sree (in Telugu)*, Visakhapatnam: Roshan Publications.

Venkata R.G. (2018). Telanganalo Matam (Kakateeyula nundi Asaf jahila Varaku) (in Telugu), In Kumari, A. and Prasad, G. (Eds.). Kakateeyula nundi Asaf Jahila Varaku Telangana, Hyderabad: Telangana Sahitya Akademy.

Venkata R.G. (2018). Vimarshakudiga Palagummi Padmaraju (in Telugu). In K.V. Padmavathi (Ed.). *Vyasa Padmalu* (in Telugu). Visakhapatnam: Roshan Publications.

## **Journals**

### **Editor/Member of Editorial Board**

Editor : 1

Members of Editorial Boards: 3

### **Research Projects**

SAARC Cultural Centre, Hindu Temple Culture of Manipur: Towards Mapping, Conservation and Promotion, A.H Singh, 05.12.2018 to 31.03.2019. 1000US\$

### **Seminars Organized -3**

One Day National Symposium on *Under-graduate Bengali Syllabi: A Review*, 29 Sep. 2018.

*Matrubhasha Diwas* – The International Mother Language Day, sponsored by the National Council for Promotion of Sindhi Language, MHRD, New Delhi, 21 February 2019.

Two Days National Seminar on “Gandhian Thoughts and Indian Literary Culture”, 09 & 10 March 2019.

### **Seminar/Conference Presentations**

Barman, S.K.

Presented a paper, *Uttar Banger Bhaoyaiya Sangeete Naree*, in the National seminar on Text textually & Reader's, organized by Zakir Husain Delhi College (Evening), New Delhi, 15–16 Nov. 2019.

Presented a paper, *Mahaswetar Chhotogolpa: Adibasisamaj*, in the International seminar on Indian Vernacular literature: Premakhyana, organized by Atma Ram Sanatan Dharma College, New Delhi, 29–30 Jan. 2019.

Chakraborty, A.

Delivered a lecture, *Rape Narrative in Contemporary Bengali Popular Culture*, in the National Seminar on *Rape Narrative and Popular Culture*, Deshbandhu College, University of Delhi, Delhi, 23 April, 2018.

Delivered a lecture, *Syllabus Making: Ideal and Reality*, in the National Symposium on *Undergraduate Bengali Syllabi: A Review*, Dept. of MIL&LS, University of Delhi, Delhi, 29 September, 2018.

Delivered a lecture, *Manuscript and Folklife: Beyond Elitist Definitions of Manuscript*, in the National Seminar on *Folklife as Reflected in Manuscripts*, Karnataka Janapada University, Karnataka, 10-12 January, 2019.

Delivered Keynote Address, in the National Seminar on *Literary Trends of Contemporary Literature: East and West*, Aligarh Muslim University, Aligarh, 25 March, 2019.

Delivered a lecture on *Understanding Manuscript as Multimedial Text*, in the National Seminar on *Manuscript in New Directions*, Visva-Bharati, Santiniketan, 26-28 March, 2019.

Presented a paper on *State-sponsored Literary Histories and Literary Anthologies in Bangladesh*, XVI CLAI Biennial International Conference on Studying South Asian Narratives through Pluralist and Dialogic Frames, Maulana Azad National Urdu University, Hyderabad, 11-14 March, 2019.

Devi, U.

Presented a paper on *Therikatha -Athi penkalin Alagiyal* in the International seminar on Recent Trends in Applied Linguistics by Thamizhaga Institute of Educational Research and Advancement, Chennai, in collaboration with Tamil Nadu Linguistics Researchers Group held at Kumaragam, Coimbatore 27 Jan. 2019.

Delivered a lecture on *Counter cultural Aesthetics*, in the International conference *Ethics and Aesthetics*, organized by Department of Tamil, N.G.B. Arts and Science College, Coimbatore, 30 Jan. 2019.

Presented a paper on *Ketribhojna and Mulaippari Ritual - A Semiotic Approach*, in the International seminar on Folklore and philosophy and Other Issues, T.E Malayalam University, Tirur Kerala 15-17 Mar. 2019.

Delivered a lecture on *Literary Representation of Women Empowerment* at Sri Bharathi College for Women, Kunnathur, Arani, Tamil Nadu, 08 Mar, 2019

Presented a paper on *Representation of Gandhi in Tamil Literature* in Seminar on, Gandhi in World Literature organized by Gandhi Bhawan, University of Delhi, 12 March 2019.

Presented a paper on *New Trends of reading the Women folklore*, in National Conference, on New trends in Folk and Tribal Lore, organized by Dept of Indian Languages and Rural Arts, Gandhigram Rural Institute, Gandhigram, 26 Mar. 2019.

Ghosh, A. Presented a paper, Archiving the Public Sphere: Understanding Lunacy in Late Nineteenth and Early Twentieth Century Bengal, in the National Conference, organized by Shiv Nadar University, Uttar Pradesh, at India International Centre, New Delhi, 08–09 Mar. 2019.

Gampa, V.R.

Presented a paper on *The Influence of Globalization on Telugu Fiction: Critical Study*, in the National Seminar on *Bharateeya Bhasha Sangam*, organized by the Department of Sanskrit, Jawaharlal Nehru University, Delhi, 16–18 Nov. 2018.

Presented a paper on *Aye or Nay? Perspective on Globalization in Telugu literature*, in the National Seminar on *Impact of Globalization on Indian languages and Literature*, organized by the Department of Modern Indian Languages, Aligarh Muslim University, Aligarh, 11–12 Feb. 2019.

Presented a paper on *Twenty Points Programme: Origin from Telugu novel to Indira Gandhi in the Gandhian way*, in the One Day National Seminar on Gandhian Thoughts and Indian Literary Culture, organized by the Department of Modern Indian Languages, Aligarh Muslim University, Aligarh, 09–10 Mar. 2019.

Narayanappa, V.

Paper presented on *Telugu Kannada Saametalu – Tulanaatmaka Parishilana* at Department of Telugu, Comparative Literature, Ananthapuramu & Folklore Society of South Indian Languages, Thiruvananthapuram, 30– 31 January 2019.

Paper presented on *Bhaaratiya Vaangmayamloo Strii Paatra Praamukhyam: NaaDu - NeeDu* in the International Seminar on Praaciina Telugu Sahityam – Aadhunika Punarmulyaankanam, jointly organized by Sneha Club, A.P., SC Welfare Society & Mahabodhi Sahitya Vedika, Ananthapuramu, 27–28 February 2019.

Pattanaik, P.C.

Presented a paper on *Preservation of Lepcha Culture* in the national seminar organized by MLLDB, and ILTA, at Phuloongdong, Darjeeling, West Bengal, to mark the Birth Anniversary of Thikung General G. B. Manwairing, 18 July 2018.

Presented a paper on *Documentation and Preservation of Tribal language and Culture* at Tribal Development Department, Gov't of Sikkim, held at Sramasa Garden, Gangtok, 6-8 August 2018.

Delivered the Presidential Address on a special event organized by MLLDB, and ILTA, at Chaurasata, Darjeeling, West Bengal, to mark the 287<sup>th</sup> Birth Anniversary of Pano Gaebo Achyuk, 20 December 2018.

Delivered the Presidential Address on a special event organized by MLLDB, and ILTA, at Git-dabbling, Kalimpong, and West Bengal to mark the 104th Birth Anniversary of Aathing K. P. Tamsang, 19 January 2019.

Delivered a lecture on the *Elements of Oral traditions* and chaired a session in the National Convention of Lipi-Literature 2019, organized by Udraja, held at Bhubaneswar, 25-26 February 2019.

Delivered the Keynote address and chaired a session in the national Seminar on *Tribal life of Eastern India: Insiders' and Outsiders Perspectives* at Centre of Excellence, Department of Odia, Visva- Bharati, 26-29 March 2019.

Rajagopal, G.

Delivered a lecture on *Tamil Ayvedugalil Ayvival Nerimurai – Molippulamaic Cikkalgal*, (Research Methodology and Issues of Language Proficiency in Tamil Theses), Department of Tamil Language, University of Madras, Chennai Tamil Nadu, 08 March 2019.

Delivered a lecture on *Mother Tongue and Other Tongues in the Present Context of India, in the Matrubhasa Diwas* in The International Mother Language Day Seminar, organized by the Gandhi Bhawan, University of Delhi, Delhi, 21 February 2019.

Delivered a Chairperson remark, in the International Mother Language Day Seminar, organized by the Faculty of Arts, Deptt. of Modern Indian Languages and Literary Studies, University of Delhi, Delhi, in collaboration with NCPSL, MHRD, Govt. of India, 21 February 2019.

#### **National / International MoU Signed**

Erasmus+ Exchange Programme, Charles University, Prague, Czech Republic.

#### **Number of M.Phil./Ph.D. Degrees Awarded (25)**

Ph.D.	-	9
M.Phil.	-	16

#### **Faculty Strength: (15)**

Permanent	-	11
Ad-hoc	-	4

#### **Other significant information**

Chakraborty, A. (2018). The Convener, has organized Faculty Development Programme on *Undergraduate Bengali Program Syllabus Up-gradation*, 30 Nov.–6 Dec. 2018.

Das, R. (2018) has been writing fortnightly column titled as 'Abyaktigata' in leading Assamese daily *Dainik Janambhumi*.

Gampa, V.R. (2018).

As convener organized One Day National Seminar on *Telugu Writings in English: New Perspectives*, in the Department of Modern Indian Languages and Literary Studies, University of Delhi, Delhi-110007, 13 Oct. 2018.

As Co-Convener organized Two Days National Seminar on *Gandhian Thoughts and Indian Literary Culture*, in the Department of Modern Indian Languages and Literary Studies, University of Delhi, Delhi-110007, 9-10 March 2019.

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## PERSIAN

### Major Activities and Achievements

The Department of Persian offers Certificate Course, Diploma Course, Advance Diploma Course, Master of Art, One Year Post M.A. Diploma in Persian Advance Translation & Interpretation, M. Phil and Ph.D. program in Persian. The Department is supported by UGC-DSA SAP-II grant. The faculty members have more than 01 publication in journals of international repute during 2018-19.

Few faculty members are associated with professional societies and grant agencies. One faculty has been on Advisory committee of Special Assistance Programme of UGC of different universities; and expert on several committees of UGC, and ICCR. Apart from regular teaching and research, the Department organizes weekly seminars, yearly workshop and seminars. During 2018-19, the department organized International conference/Seminar.

### Research projects

DRS SAP-II (Indo-Persian Literature). University Grants Commission. 2014-2019 (5 years). Rs. 44,00,000/-.

### Conferences Organized

Two-day National Seminar on “Urdu aur Farsi Ki Adabi aur Tehzibi Rishtey” on 10<sup>th</sup> -11<sup>th</sup> May, 2018 sponsored by Fakhruddin Ali Ahmad Memorial Committee, Lucknow.

Hazrat Amir Khusrau Dehlavi Lecture Series held on 29<sup>rd</sup> March, 2019 on “Amir Khusrau Hindustani Tahzeeb-o-Saqafat ka Alambardar” supported by NCPUL, GOI, New Delhi.

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

Ph. D. Awarded - 05

M.Phil. Awarded - 09

### Number of Faculty (11)

Permanent - 04

Ad-hoc - 02

Guest - 04

Research Associate - 01 + 01 (vacant)

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## PHILOSOPHY

### Major Activities and Achievements

The Department of Philosophy has always aimed to create a platform for international and national scholars to present their views and research. Many scholars of stature were invited and this led to some very fruitful and interactive discussions, exposure to which was valuable to both faculty and students. The Department successfully offered four interdisciplinary courses for students of other disciplines. The different committees that were constituted did their work diligently and addressed many academic and administrative matters effectively. Faculty members robustly participated in seminars and conferences and some were invited to present keynote, invited special and public lectures.

### Publications

Aditya, K.G. (2018). Advaita, Dharma and National Political Discourse' In *Politics for a New India*, Rupa Publication.

Balaganapathi, D. (2018). Hinduism in Thailand: Its presence and Absence, *Journal of South Asian Studies*, Vol.24. No.2. pp. 73-86.

Balaganapathi, D. (2018). Impact of Disruptive Technology on Higher Education. University News, *A Journal of Higher Education*, Association of Indian Universities. Vol.56. No.12.

Balaganapathi, D. & Jayshree J.R. (2018). Dattatreya Ranade in Modern South Asian Thinkers. In Pathak, D.N. & Kumar, S. (eds.). Sage. 2018. pp. 292-297.

Bhowmick, N. (2018). Book Review: Amitav Ghosh's *The Great Derangement*, Online <https://www.iamrenew.com/book-review/books-amitav-ghoshs-great-derangement/>

Bhowmick, N. (2018). Reflections on Human Inquiry. Gauhati University, *Journal of Philosophy*, Vol. 3, 157-164.

Bhowmick, N. (2018). Mind talk. Interactions, Vol. 1, Qtr. 3, Online: <https://lilainteractions.in/mind-talk-the-confluence-of-thought-and-action/>

Bhowmick, N. (2018). Priority Monism and Logical Atomism. *Gauhati University Journal of Philosophy*, Vol. 3, pp 23-38.

Motilal, S. & Prakriti Prajapati (2018). The Development Agenda and Human Rights Violations: The South Asian Context, Jay Drydyk and Lori Keleher (ed.) *Handbook of Development Ethics*, Routledge pp. 376-381

### **Research Projects**

University Grants Commission, A Major Research Project, A Study of Doctrinal differences of the Early Buddhist Sects of Andhra, Balaganapathi, D. 2015-2018), 13.5 lacs

ICSSR, New Delhi, Major Funding Project Culture through the Labyrinth of Globalization: A Study of Popular Imaginations and Alternative narratives of Digital and non-Digital Telugu literatures - Interface of Culture and Politics in India: An exploration into the alternative narratives. Balaganapathi, D. 2017-2019, 45 lacs.

### **Seminars Organized -31**

Balaganapathi, D International Seminar on "Building bridges between Latin American and Indian Philosophies" in collaboration with Ramanujan College, New Delhi on 22<sup>nd</sup> March 2019

Chaturvedi, A., Assistant Professor of Philosophy, Ashoka University gave a talk on "Harmony and isonomy: two models of order in pre-Platonic philosophy". 22<sup>nd</sup> February, 2019

Gokhale, P.P., Honorary Adjunct Professor Department of Pali, S.P. Pune University) gave a talk on "A Plea for Cultivation of Sublime Attitudes (Brahmaviāra)". 4<sup>th</sup> January 2019.

Katju, J.K., Former Justice, Supreme Court of India gave a talk on 'How Indian Academicians are cut off from realities'. 14<sup>th</sup> February, 2019.

Kazmierczak, Z. Professor of Religious Studies and Philosophy, University of Bialystok, Poland) gave a talk on "In What Way All Religions are Equal?" 8<sup>th</sup> February 2019.

Ozog, T.A., Doshisha University, Kyoto, Japan gave a talk on "Various forms of religious coexistence. European, Japanese and Indian perspective". 8<sup>th</sup> February'19.

Rathore, A.S., Professor, author and an Ironman triathlete gave a talk on "Towards A Philosophy of Autobiography". 1<sup>st</sup> February 2019.

Veeramani, K., public intellectual, writer and leader gave a talk on " Philosophy of Periyar and Self Respect Movement". 4<sup>th</sup> February 2019

Convenor of 2 days' I.C.P.R. Sponsored National Conference 'Decolonization of Indian Mind: Revitalization of Indian Philosophy' (Darshan Jnāna Sangam), New Delhi. 13-14<sup>th</sup> October, 2018.

Organized an ICPR sponsored national seminar on *Women, Gender and Patriarchy: Exploring the Margins* in Department of Philosophy, University of Delhi from 15<sup>th</sup> -17<sup>th</sup> October, 2018.

### **Seminar/Conference Presentations**

Balaganapathi D. Presented paper *Universal Ethics in the Modern Education System: Technology, Rationality and Emotion* in the 2nd Conclave on Universal Ethics: Perspective of Emotional Intelligence in Education Organised by Tibet House and Ramanujan College on 14<sup>th</sup> - 15<sup>th</sup> April 2018.

Presented paper *Relearning to be at Peace: Exploring Indian Conceptions in the roundtable on "Self-Awareness of life in New Era"* in the 24th World Conference of Philosophy held at China National Convention Centre Beijing on 17<sup>th</sup> August 2018 .

Invited talk on "*Media Ethics*" at Hansraj College, New Delhi on 8<sup>th</sup> September 2018.

Presented paper *Swaraj in Ideas in the National Seminar on "Revitalizing Indian Philosophy and Decolonizing of Indian Mind"* organized by ICPR during 13<sup>th</sup> - 14<sup>th</sup> October 2018.

Invited talk *Principle of Autonomy: A Human rights perspective* Indian Philosophical Research periodical Lecture at Laxmibai college, New Delhi on 14<sup>th</sup> March 2019.

Presented paper *In What sense Value can teach us to be Human? In the roundtable on "Value and Learning to be Human"* in the 24th World Conference of Philosophy held at China National Convention Centre Beijing on 15<sup>th</sup> August 2018.

Presented paper on *Periodization and Conceptualization of Indian Philosophy* in the International Seminar on "Building bridges between Latin American and Indian Philosophies" at Convention Centre, JNU, 18<sup>th</sup>- 20<sup>th</sup> March 2019.

Presented paper *A Study of Eurocentric Depictions of Dāna* in International Conference on Dispassionate Churning of Indology organized by Bharatiya Vidvat Parishad and Tattwa Samshodhana samsat at Udupi during 4-6<sup>th</sup> January 2019.

Presented paper on *Religion and Creativity: Aesthetics as a solution to the Crisis of Contemporary Religion* in the National Seminar on "Revisiting Indian History Through the lens of Art, Architecture and Aesthetics" organized by Department of History and Indian Culture, Banasthali Vidyapith, Rajasthan on March 30<sup>th</sup> – 31<sup>st</sup> , 2019.

Presented paper on *Culture through the Labyrinth of Globalization: A Study of Resistance to standardization of Telugu* in the two-day workshop on the "Popular Imaginaries and Discourses on Politics in India: Exploring Cultural Narratives as Alternative sites of Knowledge construction" held at Indian Institute of Advanced Study, Shimla during 8<sup>th</sup> - 9<sup>th</sup> February 2019.

Presented paper on *Social Relation: A Buddhist reconciliation of Reason and Emotion* in the 13<sup>th</sup> "Nalanda Dialogue on Philosophy of Relation and Modern Science" by Nava Nalanda Mahavihara, Nalanda during 21<sup>st</sup> - 23<sup>rd</sup> January 2019.

Presented paper on, *Exploring the conceptions of Peace: Family as a nurturing ground* in the Peace Conference organized by Vishnumohan Foundation, Chennai during 19<sup>th</sup> - 21<sup>st</sup> January 2019.

Presented paper on, *The Indian concept of Dāna and Its scope of application today* in the two-day Seminar on "Vasudhaiva Kutumbakam: Relevance of India's Ancient thinking to Contemporary Strategic Reality" organized by Vivekananda International Foundation, New Delhi in collaboration with ICPR, New Delhi during 16<sup>th</sup> - 17<sup>th</sup> of January 2019.

Bhowmick, N.



Resource Person for University of Mumbai Workshop on Logic and Truth. Lectures delivered on the topics “*More on Truth*” and “*Non-Classical Logic.*” 24 - 26<sup>th</sup> September, 2018.

Delivered a talk *The Relevance of Philosophy in JN U* on 30<sup>th</sup> November, 2018.

Chopra, N.

Presented on *Exploring Meaning in the AI & the Real Human Mind: Reconstructing the Foundations of Cognitive Science using Heideggerian Phenomenology and EEEEA-Cognition* (abstract), at the international conference 5th ACCC (Annual Conference of Cognitive Science), organized by Center for Linguistic Science and Technology, IIT Guwahati, October 10-12, 2018.

Presentation on *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.

Gautam, A.

Presented paper *An enquiry into Feminist Perspective on Epistemology* in the national seminar on Gender Sensitization (Women, Gender and Patriarchy: Exploring the margins) organized by Indian Council of Philosophical Research on 15<sup>th</sup> October 2018.

Invited talk *Understanding Testimonial Knowledge Through the Lens of Miranda Fricker*, at Centre for Philosophy, Jawaharlal Nehru University on 10th April, 2018.

Gupta, A.K.,

Invited Lecture *Advaitic Morality* at Mata sundari College, University of Delhi, Sept., 2018.

Invited Lecture ‘*Madhyakal Hindi Sahitya evam Vedanta philosophy*’ M.H.R.D. Sponsored Faculty Development Programme, Hansraj College, University of Delhi, Nov.,2018.

Delivered an invited lecture *Advaitic Morality and Inexpressible Language* at a National Seminar on Moral Language Organised by Department of Philosophy, University of North Bengal 13th to 14th of February, 2019.

Invited Lecture as a recourse person in a U.G.C. sponsored faculty development programme, University of North Bengal, Feb.13, 2019.

Invited Lecture on *Family and non-dualistic Love: Examination of a path of peace* at Fourth Annual conference on Peace and Reconciliation, Chennai, 19th,20th and 22nd of January 2019.

Invited Lecture *Dimensions of Rama* at a national symposium, I.G.N.C.A., New Delhi, Jan,05,2019.

Invited lecture on *Bhartiya sanskriti me nari ka sthaan* in a national seminar on ‘Women Gender and Patriarchy’, University of Delhi, Oct 16,2019.

Participated in a Discussion on *Organized Violence* on ABP News.

Jaiswal, R.

Invited talk on From Nationalism to Cosmopolitanism: An Analysis of Aurobindo’s Views in ICPR sponsored National Seminar, organized by Department of Philosophy and Religion, Banaras Hindu University on The Tradition of Advaita Vedānta: Its Contemporary Interpreters and Prof. Rewati Raman Pandey (27-29 July, 2018).

Invited to speak on Dialogue on Peace Studies: Korea and India in ICPR organized symposium with Korean Delegates on 19th Sept. 2018.

Invited talk on The Conflict Resolution Technique with Special Reference to Gandhi and Tagore in the national seminar on ‘Gandhian perspective on Alternative Dispute Resolution’ co-organized by Indialogue Foundation, Gandhi Smriti and Darshan Samiti and Aligarh Muslim University (30 and 31 October 2018).

Presented paper on The Quest Towards a Different Paradigm: In Search of a ‘Woman’” in ICPR organized National Seminar on *Women, Gender and Patriarchy: Exploring the Margins* (15<sup>th</sup> – 17<sup>th</sup> Oct. 2018).

Presented a paper on The Gandhian Solution to the Problem of Religious Intolerance in the International Seminar Asian Philosophy Conference (7th- 8th March 2019).

Presented paper on The Conflict Resolution Technique with Special Reference to Gandhi and Tagore” in the Indian Philosophical Congress (9<sup>th</sup>-11<sup>th</sup> March 2019).

Kesava, P.K,

Presented paper o*Caste in Classroom: An Ethical Interrogation in International conference on “Ethics of Teaching in Pluralistic and Unequal societies”* organized by IIT Bombay, 22-24 November, 2018.

Presented paper *Ethics of Teaching in Pluralistic and Unequal societies* in International conference on by IIT Bombay, 22-24 November, 2018.

Presented paper *Debates in Making Indian Constitution in Seminar on ‘Importance of Indian Constitution and Need to Protect it’* organized by Centre for Dalit Studies, Department of English on 26 November 2018.

Presented paper *Philosophical Method of Debiprasad Chattopadhyaya* in Seminar on “What is Living and What is Dead in Indian Philosophy” organized by the Department of Philosophy, University of Delhi, November 30, 2018 on the occasion of Birth Centenary Celebrations of Debiprasad Chattopadhyaya.

Presented paper *Indian Philosophy: An Indigenous Perspective*, International Conference on “Building Bridges between Latin American Philosophy and Indian Philosophy” organized by University of Delhi and Ramanujan College on March 22, 2019.

Chaired a Session, International Conference “*Building Bridges between Latin American Philosophy and Indian Philosophy*” organized by University of Delhi and Ramanujan College, March 22, 2019.

Chaired a session and Panel Discussant, National Seminar on “*Dalit Literature: Texts and Contexts*” organized by Centre for Dalit studies of Department of English, University of Delhi on 13-15 March, 2019.

Chaired a session International Conference on “Building Bridges between Latin American Philosophy and Indian Philosophy” , Jawaharlal University, March 18-20, 2019.

Presented paper *Issues in Understanding the Philosophy of Ambedkar*, Invited Lecture organized by the Department of Political Science, Zakir Husain Delhi College(M), 19 February 2019.

Presented paper *Exploring and Enframing Philosophy of Information Society* (Special Lecture of Chairman for Philosophy Research Committee) in XLII Indian Social Science Congress organized by Indian Academy of Social Sciences and KIITS, Bhubaneswar on 27-30 December 2019.

Motilal, S.

Presented paper *Alliances Beyond and Within the Human Realm: A Wakeup Call for Global “Well-being at Conference on ‘A World United: Alliance and Collective Action for an Ethical Development’,* organized by GREthA - IDEA, Bordeaux, France June 25-27 2018.

Presented paper *Development Ethics and Alliances Beyond Human Beings”* at PhilCon 2019 organized by Department of Philosophy, Ashoka University, March 23rd 2019.

Presented paper “*Bridging the Gap between Development and Human Well-being: Lessons from Indian and Latin American Philosophies*” at Conference on ‘Building Bridges between Latin American Philosophy and Indian Philosophy’ organized by Department of Philosophy, University of Delhi, March 22nd 2019.

Roy, S.

Delivered a talk *Justice and Ethics: Through the prism of Eco-Feminism in Women, Gender and Patriarchy: Exploring the Margins* (ICPR Sponsored National Seminar 15<sup>th</sup>-17<sup>th</sup> Oct. 2018).

Delivered a talk *Understanding Vivekananda's 'Universal Religion' in the Context of India's Pluralistic Ethos*, *Revitalization of Indian Philosophy: Decolonization of Indian Mind* (ICPR Sponsored National Seminar 13<sup>th</sup>-14<sup>th</sup> Oct. 2018).

Delivered a talk *"Ecological awareness in Vedic Literature"*. *"Actuating Indic Studies for a Better World* (International), Amity University Manesar 2-3<sup>rd</sup> August 2018.

Chaired the session on "Indian Philosopher's Day Celebrations" organized by Deshbandhu College, New Delhi on 8th August 2018.

Inited talk *"Philosophical Counselling"* at Faculty Development Program organized by Shyama Prasad Mukherjee college, New Delhi on 22nd September 2018.

Invited talk *"Ecological consciousness and Vedantic philosophy"* in ICPR sponsored National Seminar, organized by Department of Philosophy and Religion, Banaras Hindu University on The Tradition of Advaita Vedānta: Its Contemporary Interpreters and Prof. Rewati Raman Pandey (27-29 July, 2018).

A session in ICPR Women, *Gender and Patriarchy: Exploring the Margins* (15th-17th Oct. 2018).

Presented a paper *"Need and Relevance of Environmental Sustainability"*. Organized by Daulat Ram College in collaboration with ICPR and P.A. Sangma Foundation 10-11th January, 2019.

#### **Number of M.Phil./Ph.D. Degrees Awarded (17)**

**M.Phil.** - 10

**Ph.D.** - 7

#### **Faculty Strength (16)**

Professors - 04 + 04 (vacant)

Associate Professors - 02 + 13 (vacant)

Assistant Professors - 10 + 01 (vacant)

#### **Other Significant Information**

Balaganpathi, D.

General Secretary, Asian Philosophy Conference organized at Nava Nalanda Mahavihara, Bihar organised from 7th -11th March 2019

Member Board of Studies of Philosophy, Sri Mata Vaishno Devi University, Katra, Jammu, Member (Chancellor's nominee), Board of Management, Mohan Lal Sukhadia University, Udaipur for the year 2018-19, Chairman, Governing Body of Maitreyi College, New Delhi from March 2019 till date.

Chief Advisor, Centre for Ethics and Values, Ramanujan College, Delhi from 2017, Member (External Expert), School Board of School of Humanities and Social Sciences, Central University of Jammu, Bagla, Samba, J&K from August 2018 onwards, Member, Committee constituted by UGC, New Delhi for drafting Learning Outcomes based Curriculum Framework (LOCF) for Philosophy 2018, Member of Review Committee of Indian Council of Philosophical Research, New Delhi constituted by Ministry of Human Resource of Development, Govt of India 2018.

Motilal, S. Conducted a Two-day Workshop on "Ethical Foundations of Public Policy and their Cross-cultural Applications: An Overview" jointly organized by Ethics and Public Affairs Program, Department

of Philosophy, Carleton University and Canada-India Center for Excellence, Carleton University (12th and 13th June, 2018), Ottawa, Canada

Roy, S.

Content writing for SWYAM (MHRD project) on “Nationalism in India” and “Debate between Liberalism and Communitarians in the Contemporary Political Philosophy”.

Content writing for SWYAM (MHRD project) on “Gender, Equality and Dignity: A Western Perspective” along with Dr. Puja Rai.

Content writing for SWYAM (MHRD project) on Ethics and its divisions

Content writing for SWYAM (MHRD project) on Theories of Normative and Applied Ethics: Western Perspective.

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## 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 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. An approved UGC-SAP Grant of Rs. 44 lakhs (Non-Recurring – Rs. 5 Lakhs; Recurring-Rs. 39 Lakhs) in the year 2015 was received and activities under it are in progress. Under UGC SAP, the Department entered the Third year of its activities under the scheme.

Department runs a Counselling Centre and a Developmental Resource Centre to meet the specific needs of the community.

### Publications

Babu, N., Feldman, & Robert, S. (2018). *Development Across the Life Span*, Pearson: India.

Babu, N., Feldman, & Robert, S. (2018). *Child Development*, Pearson: India.

Chhabra, D., Penberthy, J.K., Ducar, D., Avitabile, A., Lynch, M. et al. (2018). Impact of Coping and Communication Skills Program on Physician Burnout, Quality of Life, and Emotional Flooding. *Safety and Health and Work*, 9, 381-387.

Chhabra, D., Penberthy, J.K., Penberthy, J.M., Avitabile, N., Le, N. et al. (2019). Mindfulness

Based Therapies for Autoimmune Diseases and Related Symptoms. *OBM Integrative and Complementary Medicine*, 3(4), 1-10.

Gupta, A., & Jena, S. P. K. (2018) The Effect of Mindfulness, Cognitive Behavior Therapy and

Academic Training on Conduct and Academic Problems of Disadvantaged Children. *Journal of Psychology and Psychotherapy*, ISSN: 2161-0487, 8, 4:347.

Jena, S. P. K. (2018) *AdhigamAkshyamta: Sidhant se PrayogTak (Learning Disability: Theory to Practice)*, Sage, New Delhi, ISBN 978-81-321-0969-3 (Ch. 14) p. 268 (Hindi Translation of my original work in English: Learning Disability: Theory to Practice, by the same Publisher)

Taneja, D., & Jena, S.P.K. (2018), Autism Spectrum Disorder: It's impact on lives of typically developing siblings, IJRAR-International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P-ISSN 2349-5138, .5, 3, 20-29.

## **Journals**

### **Number of Departments faculty members serving as Editors/Members of Editorial Board**

Reviewer board member- One Faculty serving in two journals

### **Research Projects (2)**

RGNIYD, Resilience and Entrepreneurship Development in People below - Poverty Line, Jena, S.P.K. started on 25 October 2016.

UGC SAP DRS-I (Psychology). University Grants Commission. 2014-2019 (5 years). Rs. 44,00,000/-.

### **Seminars Organized - 7**

Special Lecture on Multivariate Techniques conducted by Dr. Arvind Mishra from Jawaharlal Nehru University, Delhi at the Department of Psychology, North Campus on 12<sup>th</sup> October 2018.

Workshop on 'listening and Singing in Broken Times' by Ms. Bhowmik on 30<sup>th</sup> January 2019.

Workshop on 'Storytelling' by Himanshu Poswal, an expert from The Story Worth Sharing Company at the Department of Psychology, South Campus on 20<sup>th</sup> September 2018.

Workshop on expressive art therapy by Ms. Kritija Saxena (VIMHANS) at the Department of Psychology, South Campus on 14<sup>th</sup> September 2018.

Workshop on hypnotherapy and modalities by the experts Ms. Pallavi Srivastava at the Department of Psychology, South Campus on 6<sup>th</sup> September 2018.

Workshop on 'Learning Application and Usage of American Psychology Association' Psycenet for research at the Department of Psychology, South Campus on 16<sup>th</sup> August 2019.

Workshop on "Stress Management and Team Building by the Resource Person, Dr. Ajai Pratap, VBS Purvanchal University at the Department of Psychology, South Campus on 16<sup>th</sup> March 2018.

### **Conferences Organized**

A National Conference on 'Ethics in Psychological Research' sponsored by UGC-SAP (DRS-I) was conducted at Department of Psychology on 16<sup>th</sup> March, 2019.

### **Seminar/Conference Presentations**

Babu, N., The experience of vulnerability and resilience among adolescent girls in urban slums. Presented in the Symposium 'Lived-In' Experiences of Adolescent Girls in India. The 24th Congress of the Cross-Cultural Psychology, The University of Guelph, Canada July 1-5,2018.

Babu, N. (2018). Symposium 'Lived-In' Experiences of Adolescent Girls in India. The 24th Congress of the Cross-Cultural Psychology The University of Guelph, Ca nada July 1-5 2018.

Jena, S. P. K., Understanding Criminal Behaviour: One-day National Workshop on Criminal & Forensic Psychology, LNIN National Institute of Criminology and Forensic Science, Rohini, Delhi, 18 March, 2019.

Jena, S. P. K., Workshop on Research Method in Clinical Psychology In International Conference on Integrating Traditional Healing, 9 January, 2019.

Jena, S. P. K., Practices with Contemporary Western Health System, Daulat Ram, College, University of Delhi, 8-9 January, 2019.

Pratima, & Jena, S. P. K.,. Strategies to manage students with learning difficulty into mainstream education.28th Congress of National Academy of Psychology 2018 at University of Delhi on theme: Towards Building Inclusive Society, 18-21 December, 2018.

### **Extension and Outreach Activities**

Extension and Outreach activities are carried out as an intrinsic part of the practicum where students conduct survey, psychological assessment and intervention in the community. The students of the department visited schools (such as DUSC) and conducted Cognitive Assesments on the children and provided required interventions, wherever needed. The department has a counseling center where the counseling services are provided to people across different age groups with varied cognitive and psychological- social issues. The developmental resource center of the department provides services such as parenting training, training for cognitive enhancement, play therapy, etc.

### **Placement Details (18)**

Number of students placed - 10

### **Number of Ph. D/MPhil. Degree Awarded**

Number of PhD Degree Awarded - 10

### **Number of Faculty (North and South Campus)**

Permanent - 10 (08+02)

Ad-hoc - 04 (01 + 03)

### **Other Significant Information (10)**

Jena, S.P.K. (2018). Director, Institute of Behavioural Science, Gujarat Forensic Sciences University, Gandhi nagar, Gujarat.

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## **PUNJABI**

### **Major activities and achievements**

The Department of Punjabi offers course for the students of M.A., M.Phil., Ph.D., Certificate and Diploma programmes. The department has organized successful literary events - national seminars, memorial lectures, meet the author and special lectures etc. during the academic session 2018-2019. It is committed to the research-oriented studie and our faculty members actively participated in seminars/conferences/lectures/refresher courses organized by the other academic & literary institutions.

With a remarkable legacy of being the nerve centre for Delhi School of Punjabi Criticism, the department has kept up with the changing times by hosting national seminars/symposium, special lectures annually. The platform provided by the department for live wire interactions among thinkers, writers and teachers on one hand, and between the intellectuals and the students on the other hand, has ensured that the department remains at the centre of Punjabi literature and culture's dynamic transformation through the decades.

### **Publications**

Kaur, J. (2018). Zafarname di Samvadikta, 'Punjabi Da Bharatri Bhashavan Naal Sambandh'. In *Thapar, P.R. (ed.) Manpreet Prakashan, NBT, New Delhi*, pp 114-120

Kaur, J. (2019). Vahikhata: Damit Swai Da Birtant, Punjabi Swaijeevnian Sahitak Mulankann. Balbir Madhopuri (ed.), Navyug Publishers,pp109-119

Kaur, J. 2018, *Zafarnama: Dharmak ate Rajneetak Pahiloo*, Shri Guru Gobind Singh Ji: Jiwan Ate Vichardhara, Dr. Satwant Kaur Maan & Amritpal Kaur Virk (ed.), Twenty First Century Publishers, Patiala, pp 23-27.

Kaur, J. 2019, *Vahikhata: Damit Swai da Birtant*, Punjabi Vartak: Praptian te Sambhavan, Dr. Satwan Kaur Maan & Amritpal Kaur Virk (ed.). Twenty First Century Publication, Patiala, pp1-5 Patiala, pp 1-5

Kaur, J. (2019), *Buddha Magarmachh* (Translated), NBT, New Delhi. Nasrali, B. (2019). *Aoun Wali Kal Da Verva- Homo Deur*, Sirjana, 191, pp 55-64

Nasrali, B. (2019), *Dak Khana Khas*, Patiala, Punjab, *Gracius Book*.

Nasrali, B. (2019). *Philosophy Da Galpnik Itihas*, *HUN*, 41pp110-117.

Ravi, R. April-June (2019). Interviewed Dr. Dhanwant Kaur on the issue of Punjabi Short Story published in *Shabad* (An International Quarterly of Literature, Art and Culture).

Ravi, R. (alias Dr. Ravinder Kumar) (2018). *Vishvikaran De Sandarbh Vich Punjabi Bhasha*, *Sahit Ate Sabhiyachar*, Vishvikaran De Sandarbh Vich Punjabi Bhasha, Sahit Ate Sabhiyachar, Twenty First Century Publications, Patiala. Ravi, R. (alias Dr. Ravinder Kumar) November 2018, *Punjabi Kahani Ki Kahani*, *Mantavya-9* (Hindi Journal).

Ravi, R. (2018). *Samkaleen Punjabi Kahani: Kush Sawal*, Questions raised before Sh. Gurbachan Bhullar (Delhi) and Harjit Atwal (U.K.). *Mantavya-9* (Hindi Journal).

#### **Seminar Organized -4**

Department organized Ru-b-Ru with Dr. Waryam Singh Sandhu on 09.04.2018 in the Departmental Seminar Hall of Punjabi Department.

Department organized Extension lecture on the topic *Sahit Ate Sahit Adhiyan Parnalian* delivered by Prof. Satinder Singh on 31.08.2018 in the Departmental Seminar Hall of Punjabi Department.

Department organized Extension lecture on the topic *Punjabi Alochana Ate Meta Alochana* by Prof. Harbhajan Singh Bhatia on 08.10.2018 in the Departmental Seminar Hall of Punjabi Department.

Department organized Prof. Harbhajan Singh Memorial Lecture on ‘Guru Nanak Dev Ji and Socitey’ delivered by Dr. Dharam Veer Singh on 28.02.2019 in the Departmental Seminar Hall, Department of Punjabi.

#### **Seminar/Conference Presentations**

Kaur, J., Presented ‘*Babar Bani da Kaav Parvachan*’ in an International Seminar on the topic *Legacy and Philosophy of Guru Nanak* organized by SGTB Khalsa College in February, 2019.

Ravinder, R. ., (alias Dr. Ravinder Kumar)

Delivered a Key Note Address at a two day ‘World Punjabi Conference’, ‘*Vishav Punjabi Bhaichara: Present and Future*’ organized by Vishav Punjabi Bhaichara (Regd.) Chandigarh and Azad Punjabi Manch, Kuala Lumpur, held at Kuala Lumpur (Malaysia) dated 22-23 November 2018.

Presented Paper on *Samkaleen Punjabi Kahani Dian Parvirtian*, at a two-day National Level ‘North-East and Northern Writers Meet’ organised by Sahitya Akademi (National Academy of Letters) held at Bharat Bhawan, Bhopal (Madhya Pradesh), July 14-15, 2018.

Moderated a session ‘*Batware De Kale Kisse, Aye Sadi Nasal De Hisse*’, in a three days literary festival *Jashan-E-Punjabi* organized by Gurmukhi Vishav Foundation, 29-31 March, 2019.

Presided a plenary session and delivered presidential remarks in a one-day National *Seminar Guru Nanak Bani: Samkaleen Parsangikta*, organized by Dayanand Mahila Mahavidyalaya, Kurukshetra in collaboration with Harayana Punjabi Sahit Academy, Panchkula, 29 March, 2019.

Presented Paper *Socio-Cultural Study of Agriculture*, in a technical session of a two-day International Seminar organized by Mata Sundri College for Women, New Delhi, 15-16 March, 2019.

Singh, N. & Kumar, S. , Presented paper “*A Grammatical Analysis of Punjabi Bagri boli*” in the National Seminar on the topic Diversity of Punjabi language and Culture: Contemporary Perspective held on 05-07 Feb, 2019 organized by Department Punjabi, Punjabi University Patiala.

### **Extension and Outreach Activities**

The faculty and students regularly participate in literary functions every month organized by Punjabi Academy, Delhi, Punjabi Bhawan, Delhi, Sahitya Academy Delhi, Kendri Sahit Sammelan, Delhi and other NCR organizations programmes.

### **Number of Ph.D./MPhil. Awarded**

Number of Ph.D. awarded - 05

Number of M.Phil. awarded - 18

### **Faculty strength (8)**

#### Sanctioned

Professors - 2

Associate Professors - 4

Assistant Professors - 6

#### Filled

Professors - 1

Associate Professors - 3

Assistant Professors - 5

#### Actual (including CAS & MPS)

Professors - 1

Associate Professors - 3

Assistant Professors - 4

### **Other Significant Information**

Department is committed to help physically challenged students and financially weaker students. It has its own international recognition as Delhi School of Punjabi Criticism.

J. Kaur. Participated as Organizer in two-day International conference on the topic Legacy and Philosophy of Guru Nanak, 22 & 23 February, 2019 at SGTB Khalsa College, University of Delhi.

Ravinder, R., (alias Dr. Ravinder Kumar) participated as a Coordinator and Translator in Translation workshop of short stories of South Indian Languages into Punjabi, 23-01-2019 to 25-01-2019, organized by Sahitya Akademi (National Academy of Letters) in collaboration with CIIL, Mysore, held at Mysore.



Ravinder, (alias Dr. Ravinder Kumar) participated as an organizer and Moderated a session on 'Punjabi Literature and Arts' in a two days Sixth World Punjabi Conference on the topic 'Punjabi: Vartman ate Bhavikh', March 10-11, 2018, organized by World Punjabi Conference (Regd.) and Punjab Arts Council, held at Chandigarh.

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## SANSKRIT

### Major activities and achievements

The Department of Sanskrit has organized NN Chaudhuri Memorial Lecture on 25.02.2019.

The Department of Sanskrit had celebration of the Traditional New Year Vikrama Samvatsara: 2073 on 05.04.2019 at Satyakam Bhawan, Social Science Extension Building.

### Honors/Distinctions

Prof. V.S. Dwivedi (2018). Received Saraswat Samman by Baudhik Vichar Manch avm Parmparik Sahitykar Parishad Uttar Pradesh. 25.4.2018.

### Publication

#### Journal Publication (11)

Chandra, S. & Anju (2018). सांख्य-योग दर्शन परिभाषा डेटाबेस एवं ऑनलाइन खोज *Research Review International Journal of Multidisciplinary*, 2455:3085 (Online), Volume 03, Issue 11., pp.890-894

Chandra, S. & Anju (2018). Mining of the Technical Terms of Sāṃkhya-YogaPhilosophy. *Journal of Emerging Technologies and Innovative Research (JETIR)*, Volume 5:5, pp.66-72.

Chandra S., Kumar, V. and Anju. (2018). Automatic Morphological Derivational Process for Sanskrit using Rule and Example Based Hybrid Approach. *International Journal for Research in Engineering Application & Management (IJREAM)*, 2454-9150, Volume 04, Issue 08, pp.232-237.

Chandra S., Kumar, V. and Anju. (2019). DS-IASConvert: An Automatic Script Convertor between Devanagari and International Alphabet of Sanskrit Transliteration. *International Journal of Research and Analytical Reviews (IJRAR)*, Volume 06, Issue 1, pp.748-752.

Chandra, S. & Anju (2019). सांख्य-योग दर्शन के पारिभाषिक शब्दों के विश्लेषण हेतु वेब तन्त्र का विकास. In *Girish Nath Jha, Sudhir Kumar Arya, Abhijit Dixit & Atul Kumar Ojha (Eds.), Veda as Global Heritage Scientific Perspectives*. India, New Delhi: Vidyanidhi Prakashan, pp.123-130..

Chandra, S. (2018). पाणिनीय अष्टाध्यायी में कम्प्यूटर प्रोग्रामिंग भाषाओं की मूलभूत अवधारणाएं. In *S. Shamra & Y. Sharma (Eds.), वर्तमान शिक्षा और वेद*. India, New Delhi: भारतीय विद्या प्रकाशन, pp.132-146.

Chandra, S. & Kumar, B. (2018). पाणिनीय नियम आधारित संस्कृतसनाद्यन्त विश्लेषक तंत्र. In *S. Shamra & Y. Sharma (Eds.), वर्तमान शिक्षा और वेद*. India, New Delhi: भारतीय विद्या प्रकाशन, pp.147-165.

Chandra, S. & Kumar, B. (2018). वेदान्त ग्रन्थों के अर्थनिर्धारण हेतु नियम एवं उदाहरण संयुक्त विधि का प्रयोग करके संस्कृत सनाद्यन्त क्रियापदों की संगणकीय पहचान एवं विश्लेषण. In *G.N. Jha, B. Singh & S. Sengupta (Eds.), Vedanta Science and Technology: A Multidimensional Approach* pp.00-00.

Chandra, S. & Kumar, B. (2019). संस्कृत सनाद्यन्त विश्लेषक. In *Girish Nath Jha, Sudhir Kumar Arya, Abhijit Dixit & Atul Kumar Ojha (Eds.), Veda as Global Heritage Scientific Perspectives, Vol-I*. India, New Delhi: Vidyanidhi Prakashan, pp.131-140

Chandra, S. & Kumar, V. (2018). उदाहरण-नियम संयुक्त विधि से संस्कृत क्रियापदों का अभिज्ञान, विश्लेषण एवं रूपसिद्धि तंत्र का विकास. In G.N. Jha, B. Singh & S. Sengupta (Eds.), *Vedanta Science and Technology: A Multidimensional Approach*, pp.00-00

Chandra, S. & Kumar, V. (2019). ई-शिक्षण हेतु संस्कृतक्रियापदों की रूपसिद्धि के लिए वेब तंत्र का विकास. In Girish Nath Jha, Sudhir Kumar Arya, Abhijit Dixit & Atul Kumar Ojha (Eds.), *Veda as Global Heritage Scientific Perspectives*, Vol-I . pp.224-233.

Chandra, S. & Kumar, M.R. (2018). संस्कृत छन्द शिक्षण हेतु छात्रों एवं शिक्षकों के लिये वेब आधारित सहायक तंत्र का विकास. In G.N. Jha, B. Singh & S. Sengupta (Eds.), *Vedanta Science and Technology: A Multidimensional Approach (pp.00-00)*. India, New Delhi: DK Print World.

Chandra, S. & Sakshi (2018). नियम एवं उदाहरण मिश्रित विधि से वेदान्त ग्रन्थों के व्याकरणिक विश्लेषण के लिए तद्धितान्त पदों की संगणकीय पहचान एवं विश्लेषण. In G.N. Jha, B. Singh & S. Sengupta (Eds.), *Vedanta Science and Technology: A Multidimensional Approach* pp.00-00

Chandra, S. & Sakshi (2019). संस्कृत साहित्य में प्रयुक्त तद्धितान्त पदों की पहचान एवं विश्लेषण. In Girish Nath Jha, Sudhir Kumar Arya, Abhijit Dixit & Atul Kumar Ojha (Eds.), *Veda as Global Heritage Scientific Perspectives*, Vol-I . India, New Delhi: Vidyanidhi Prakashan,pp.187-196

Dindoriya V.P. (2018). VĀsavadattĀ, Chaukhamba Sanskrit Pratisthan, Delhi, Dwivedi, V.S. Jivan Shaili me Sanrkshan: Bhartiya Virasat, Conservation in life style: Indian

Heritage (Published on the occasion of 8th regional 3R forum Asia and Pacific). Published by Ministry of Housing and Urban Affairs Government of India.

Dwivedi, V.S. (2018). Paschatyadeshon mein Manwadhikar ka etihask vikas. Ananta (International Journal of Sanskrit Research), Delhi. Vol 2018:4(1), pp.12-18.

Dwivedi, V.S. (2018). Manwadhikarvadi Sidhant. Ananta (International Journal of Sanskrit Research), Delhi. Vol 2018:4(1), Part B pp. 60-64.

Singh, A.P. (2018). Chhandahsameeksha me Advaita Vimarsh (Panchangataavaad ke sandarbh me), Shodh-Navneet (International Research Journal, ISSN 2321-6581), Vol- X, pgs- 115-118

Shukla, B. (2018) Kathākaautukam: Sanskrit rendering of Persian Yusuf-Zulaykha of Jami Sambodhi-XLI, pp11-26.

Tiwary, D. S. (2019). Aupanishadika Dharma-Darshan Ke Prasar mein Darashikoh ka Yogadan in *Patliputra Journal of Indology, Patna, Vol.12, January, 2019, pp. 29-33,*

Shukla, B. (ed.) (2018) Śatāvadhāniracanāsaṃcayanam (Edited Sanskrit poetry collection of Dr. R. Ganesh). New Delhi: Sahitya Akademy.

Shukla, B. (Trans.) (2018) Nihshabd-Noopur (Collection and Hindi Translation of Rumi's 100 Ghazals). New Delhi: MGAHV Wardha and Rajkamal.

Tiwary, D. S. (2019). Significance of the Yajurveda in Mathematical Study: Modern Perspective in the Proceedings of International Conference on Veda as Global Heritage: Scientific Perspective at JNU, New Delhi, in the book *Veda as Global Heritage : Scientific Perspective* edited by G.N. Jha, S. K. Arya, Abhijit Dixit, A. K. Ojha, Vidyanidhi Prakashan, Delhi

Tiwary, D. S. (2019). Yatindravimal Chaudhuri ke Jeevanacharitatmaka Rupakon me Nari ki Samajika Sthiti: Eka Anusheelana (Co-Author) in *Patliputra Journal of Indology, Patna, Vol.11, pp.1-6.*

Tripathi R.K. (2018) Chapter Writing 'Bhartiya Vidyasar' Vol-2, AICTE, Approved, Published form Bhartiya Vidya-Bhavan, New Delhi

Tripathi, R.K. (2019). Bhaugolik Abhidhaan Kosha (Arsh Mahaakaavyo se Sambadha), Vidyanidhi Prakaashan, Delhi

## **Journals**

### **Serving as Editor in National/International Journals (6)**

Editorial Board-Three faculty members serving in six journals

### **Research grants/other projects**

ICSSR, Indo-Iranian Cognate Glossary, Shukla, B, /- for the period of 2 years. w.e.f. Feb-2018, Total fund-Rs. 700,000

### **Seminars Organized -4**

Bharadwaj, R.C, Seminar on 'Lord Buddha and His Message of Equality in Indian Literature' on 30 April 2018 was organized.

Bharadwaj, R.C.,A seminar on 'Success without Stress' was organized on 24 August 2018 in collaboration with Art of Living – Delhi chapter was organized.

Bharadwaj, R.C., A two-day National Seminar on 'Gandhian Philosophy of Non-violence' was organized in Gandhi Bhawan on 1 & 2 October 2018 under the auspices of GANDHI 150.

Bharadwaj, R.C.,A two-day National seminar on 'Gandhi's Vision for National Language' on 23 & 24 October 2018 was organized in collaboration with the National Council for Promotion of Urdu Language (NCPUL), New Delhi, Govt. of India at Gandhi Bhawan.

Bharadwaj, C. Ramesh (Prof.) A two-day seminar on 'People to People Communication: A Gandhian Perspective' was jointly organized by Acharya Kakasaheb Kalelkar Smarak Nidhi, Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi and Gandhi Bhawan, University of Delhi on 1st & 2nd December 2018. Bharadwaj, R.C.,A seminar on 'Gandhi in World Literature' on 12 March 2019 to sensitize the University fraternity, especially the youth about Mahatma Gandhi – his life and his philosophy was organized.

### **Seminar/Conference Presentations**

Bharadwaj, R.C,

Special lecture on *Bharatiya Sanskriti evam Yog* at Gandhi Bhawan, University of Delhi on 7 April 2018.

Attended Book Release as Discussant 'Self, Sacrifice, and Cosmos – Vedic thought – Ritual and philosophy, Author – Prof. Romila Thapar on 11 January 2019.

Delivered a lecture at a National Seminar on '*Hindi Bhasha Aur Sahitya Par Mahatma Gandhi ka Prabhav*' organized by Department of Hindi, Aligarh Muslim University (AMU) on 11 March 2019.

Dindoriya, V.K., Attend गोपथब्राह्मणानुसार वेदार्थ निर्णयः Maharishi Vishvamitra Veda-Vedanga Workshop cum National Seminar on "वेदार्थनिर्णये ब्राह्मणानां भूमिका V.V.B.I.S.& I.S.(P.U.), Hoshiarpur, India. 28 March 2019,

Dwivedi, V.K.

Presented paper *Rigveda mein Vividh Kalayen* in India conference of WAVES on 'Vedic Perspective of Indian Arts' by Wider Association of Vedic Studies (WAVES) in collaboration with Indira Gandhi National Centre for the Arts (IGNCA), Delhi, on 27-29 November, 2018.

Presented paper '*Vedo me varnit Prerna ki Adhunik Prasangikata in 49th All India Oriental Conference* by Somnath Sanskrit University Veraval Gujarat, 18-20 May, 2018 .

Presented paper *Aitreya Brahman mein Varnit Purohito ke Kary avm Visheshataye in Rashtriya Vedic Shodh Sangoshti* at Swami Samrpananand Vedic Shodh Sansthanam, Gurukul Prabhat Ashram Tikari Bhola Meerut.U.P. 13 January, 2019.

Presented paper *Atharvvediya Lokjeevan* in National Seminar Sanskrit Vangmay me Shastriya Parmpara aur lokjeevan by Shyama Prasad Mukharji women Collage Delhi, 11-12 January, 2019.

Shukla, B.

Delivered lectures *Aspects of Hinduism* in a workshop for graduated seminaries of Qom, Iran, Sanskrit Department, Jamia Millia Islamia, 1-3 August 2018.

Presented paper *Shukla, Balram, Concept of Welfare State in Indian Polity* in national seminar held in collaboration of Delhi Sanskrit Academy and Bharti College on “Relevance of Indian Polity in Modern Times”, Delhi University, Bharti College, 22-23 October 2018.

Special lecture *Mahatma Gandhi Antararashtriya* in Sanskrit Department, Hindi Vishwavidyalaya, Wardha-Nagpur, 07.04.2018.

Special lecture on आलोचना के सार्वभौम मापदण्ड के रूप में रससिद्धान्त in Sanskrit Department, Mahatma Gandhi Antararashtriya Hindi Vishwavidyalaya, Wardha-Nagpur, 6.04.2018.

Special lecture भारत : भाषाओं का लोकतन्त्र. at भाषा साहित्य एवं संस्कृत प्रकोष्ठ, इफको on the occasion of Hindi Week celebration, 11 September 2018.

Special lecture भारतीयकथानां पारसीकविश्वयात्रा in one day seminar on संस्कृते कथासाहित्यपरम्परा in collaboration of Sahitya Akadmi and Amrita School of Arts and Sciences in Mysuru. 20.10.2018.

Special lecture हिन्दी के कार्यान्वयन में आने वाली व्यावहारिक कठिनाइयाँ एवं इनका निराकरण. In the Rajbhasha Workshop at IICM-Ranchi, 05 September 2018.

Special lecture on हिन्दी राजभाषा का वैश्विक स्वरूप in the Rajbhasha Workshop at IICM-Ranchi, 05 September 2018.

Aesthetic Role of Prakrits in Sanskrit Drama, two sessions of discussion, Sanskrit and other Languages Department of KavikulaguruKalidasa Sanskrit University, Ramtek-Nagpur, 30.03.2019.

Special Lecture प्राकृत एवं अपभ्रंश कवियों के राम. at Hindi Department, Deshbandhu College, in the program “कवियों के राम”. 26.02.2019.

Singh, A.P.

Presented paper *Brahmasiddhi me Pratipadit AanandMimansa: Ek Drishti* in International Seminar on ‘The Position and Relevance of Vedanta Philosophy in Present Era’ by P.G. Department of Sanskrit, University of Jammu, 02-04 Nov, 2018

Presented paper *ShankarVedanta me Jeevanmulya 'Singh*, in A.P., National Seminar on ‘Sanskrit Vangmaya Me Shastriya Parampara evam Lokjeevana’ at P.G. Department of Sanskrit, SPM College, University of Delhi on 11-12 Jan, 2019.

Tiwary, D. S,

Chaired a session on *Literary Works Analysis* in 2nd International Conference on Linguistics and Literature at Rome, Italy on 20-22 July, 2018.

Chaired a session Sciences in Sanskrit Literature in International Seminar organized by Kalidasa Academy of Sanskrit Music & Fine Arts, Delhi and Rashtriya Sanskrit Sansthan, New Delhi & Bharati College, New Delhi on 7-8 April, 2018.

Chaired a session *Yajya Vigyan evam Paryavarana* in International Research Conference on Vartaman Shiksha aur Veda organized by PGDAV College and collaboration with International Arya Mahasammelan, New Delhi on 27-28 October, 2018.

Chaired a Tech. Session no. I in International Conference on Education, Instructional Studies, Anthropology, Gender Studies, Humanities, Psychology, Philosophy, Sociology, Law and International Studies organized by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi, 29 December, 2018.

Lecture delivered *Relevance of the Number system and Numerals* as described in the ancient Sanskrit texts: Scientific Perspective in the 7th National Conference on Mathematics Education organized by DESM, NCERT, New Delhi, 20-22 Dec, 2018).

Lecture delivered *Sanskrit Vangmaya mein Ganitiya Parampara evam usaki Prasangikata* in International Seminar organized by Kalidasa Academy of Sanskrit Music & Fine Arts, Delhi and Rashtriya Sanskrit Sansthan, New Delhi & Bharati College, New Delh, 7-8 April, 2018.

Application of Rasadi Dhvani in the Dramas of Bhavabhuti in 2nd International Conference on Linguistics and Literature at Rome, Italy, 20-22 July, 2018.

Chaired the 5th Session in 7th National Conference on Mathematics Education organized by DESM, NCERT, New Delhi 20-22 December, 2018.

Concept of Surgery in Ancient Indian Medical Science with special reference to Sushrutasamhita in 49th AIOC, Shree Somnath Sanskrit University, Veraval, Gujarat 18-20 May, 2018.

Lecture delivered on Mathematical Education, Aesthetics, Philosophy etc. in the Vedas in International Conference on Education, Instructional Studies, Anthropology, Gender Studies, Humanities, Psychology, Philosophy, Sociology, Law and International Studies by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi, 29 December, 2018.

Lecture delivered *Sanskrit Adhyayanartha Shikshana Sansthayein tatha Shikshana Pravidhi* organised by Deptt. of Sanskrit, Ramjas College, DU on 30 August, 2018.

*Aitareya Brahmana mein Adhyatmika Gyan: Adhunika Sandarbha mein* in National Vedic Research Conference on *Aitareyabrahmane Vividha Gyan-Vigyanam* organized by Swami-Samarpananand-Vedic-Shodh-Sansthanam, Gurukul Prabhat Ashram, U.P. 13<sup>th</sup> January, 2019.

Chaired a Session in National Seminar on *Bharat Manthan* organized by School of Sanskrit & Indic Studies, JNU and Indraprastha Adhyayan Kendra, New Delhi on 30 March, 2019.

Chaired a session on *Kalidasa Sahitya Mein Lokmangal Ki Bhavana and Sciences in Ancient & Modern Sanskrit Literature* in International Seminar organized by Kalidasa Academy of Sanskrit Music & Fine Arts, Delhi & Bharati College, Delhi on 19-20 January, 2019.

Chaired a Tech. Session no. II in International Conference on *Innovative Research in Education, Law, Governance, Gender Studies, Humanities and Various Management Practices* organized by Dr. G. C. Mishra Educational Foundation at Jawaharlal Nehru University, New Delhi on 23 February, 2019.

*Hydrology (Water Science) in the Vedas: Modern Perspective* in International Seminar organized by Kalidasa Academy of Sanskrit Music & Fine Arts, Delhi & Bharati College, Delhi, 19-20 January, 2019.

Lecture delivered on *Science in Sanskrit Literature* conduct by UGC-HRDC, JNU, New Delhi, 13 February, 2019.

Lecture delivered on *Mathematical Tradition in Sanskrit Literature* conduct by UGC-HRDC, JNU, New Delhi on 20 February, 2019.

Lecture delivered on *Three Days National Conference on Multi Dimensional Aspects of Sanskrit & Larger World* conduct by Deptt. of Sanskrit, Jamia Millia Islamia University, Rashtriya Sanskrit Sansthan and ICPR, New Delhi on the topic *Science in Sanskrit Literature*, 17 February, 2019.

Lecture delivered on *Two Days National Seminar on Sanskrit Literature in Global Perspective* organized by Department of Sanskrit, Ramjas College, University of Delhi on the topic *Vishva Sahitya mein Sanskrit Katha Sahitya*, 16 March, 2019.

Lecture delivered on *Science in Sanskrit Literature* conduct by Department of Sanskrit, Aggarwal College Ballabgarh, M.D. University, Rohtak on 06 March, 2019.

Lecture delivered on Science, Philosophy and Management in Indian Intellectual Tradition organized by Dr. G. C. Mishra Educational Foundation at JNU, New Delhi on 23 February, 2019.

Lecture delivered on *Curriculum Design and Content Development* in the Faculty Induction Programme conduct by the Teaching Learning Centre, IIT, BHU, Varanasi under Pt. M. M. Malaviya National Mission on Teachers and Training, 08 February, 2019.

Lecture delivered on Saraswat Atithi (Guest of Honour) in National Vedic Research Conference on *Aitareyabrahmane Vividha Gyan-Vigyanam* organized by Swami-Samarpananand-Vedic-Shodh-Sansthanam, Gurukul Prabhat Ashram, U.P. on 13 January, 2019.

Tripathi, R.K.

Delivered lecture on *Rasasidhanta - Vikasparampara* as speaker at Sanskrit Academy, Delhi, 06 Sept., 2018,

Delivered lecture on *Kavyashastra Ka Swarup evam Alankarsidhanta-vimarsh* at Sanskrit Academy, Delhi, 07 sept., 2018.

Delivered lecture on *Riti Evam Dvani Sampraday-vimarsh* at Sanskrit Academy, Delhi, 10th Sept., 2018.

Delivered lecture on *Vakrokti and Auchitya-Sidhant* at Sanskrit Academy, Delhi, 13 Sept., 2018.

Delivered lecture on *Arsh-kavyo ka Udbhav Evam Vikas* at Sanskrit Academy, Delhi, 14th Sept.,2018.

Delivered lecture on *Natyashastra Evam Natyaparampara-vimarsh* at Sanskrit Academy, Delhi, 17 Sept.,2018.

Delivered lecture on *Rupako ka Udbhav Evam Vikas* at Sanskrit Academy, Delhi, 27 Sept.,2018.

Delivered lecture on *Sanskrit-Kavyo ka swarup Evam Vibha* at Sanskrit Academy, Delhi, 29 Sept.,2018

Chaired a Session in National seminar on 11-3-2018, Organized by Department of Sanskrit, Barkatulla University, Bhopal (MP).

Chaired a Session in National Seminar on 11.01.2019 Organized by Department of Sanskrit, SPM College, DU, Delhi.

Chaired a Session in National Seminar by Department of Sanskrit, SPM College, DU, Delhi, 12.01.2019

Chaired a Session in National Seminar by Department of Sanskrit & Department of Botany, Neharu gram Bharti University, Allahabad. (UP) on 26.01.2019

Delivered lecture as Chief speaker in National Seminar Vedic vanaspatiyo ki Vaigyanikata by Department of Sanskrit & Department of Botany, Neharu gram Bharti University, Allahabad. (UP), 26.01.2019 .

Delivered lecture on *Alanakar Sidhanta* as Recourse Person in Refresher Course at HRDC, JNU, Delhi,14.02.2019.

Delivered lecture on *Bhojpuri ki Prasangikta* at Maithili Bhojpuri Academy, Delhi, 21.02.2019.

Delivered lecture on Adhunik Sanskrit Sahitya Ki Parampara in National Seminar by Department of Sanskrit, Jamia Millia Islamiya University, Delhi, 16.02.2019.

Delivered special lecture on *Sanskrit Sahitya ki Prasangikta* at Dayal Singh College, University of Delhi, 12.03.2018.

Delivered special lecture on *Sanskrit Sahitya men Anand Ki Avadharana* at Janki Devi Memorial College, University of Delhi, 18.02.2019

### **Placement Details (6)**

Number of students placed- 06

Ph.D. scholars were selected for the post of Assistant Professor through UPHESC.

One Ph.D. scholar was selected for the post of Assistant Professor in Assam.

### **Number of M. Phil/Ph.D. Degree Awarded**

Ph.D. - 19

M.Phil - 20

### **Faculty Strength**

Total Faculty - 24

### **Other Significant Information**

Prof. V.K. Dwivedi, Participated and completed Training-Cum-Workshop on e-learning in Higher Education from -7-2-2019 to 13-2-2019 in Faculty Development Centre Ishwar Saran Collage, University of Allahabad, Prayagraj Under the scheme of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT), Ministry of HRD, Government of India.

Prof. R.C Bharadwaj organized:

International Yoga Day on 21 June 2018, Anti Terrorism Day on 21 May 2018 and World Environment Day on 5 June 2018.

Summer School on 'India of My Dreams' was organized from 9 July - 19 July 2018 at Gandhi Bhawan, University of Delhi in collaboration with Gandhi Smriti and Darshan Samiti, Rajghat, New Delhi on 'India of My Dreams' – A legendary book by M. K. Gandhi.

A competition on 'Plays on Gandhi' under the auspices of '*Plays on Gandhi*' - reflecting an incident in the life of Mahatma Gandhi, as desired by the Ministry of Human Resource Development (MHRD), Government of India. on 23 august 2018 .

On 2 October 2018, Prof. Yogesh Kumar Tyagi, Hon'ble Vice Chancellor, University of Delhi inaugurated the Photo Exhibition on Mahatma Gandhi at Gandhi Bhawan, University of Delhi. Programme on Gandhi Jayanti & International Day of Non-violence were also organized on 2 october 2018.

A Swachchata Abhiyaan at Faculty of Arts and Central Library, University of Delhi on the occasion of Gandhi Jayanti was organized on 2 October 2018.

A winter workshop on 'The Making of Individual and Society' with reference to 'Mangal Prabhaat' and 'Constructive Programmes' – books by Mahatma Gandhi was organized from 21 – 30 January 2019.

A collaborative programme by Gandhi Bhawan, School of Open Learning, University of Delhi and Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi under the auspices of GANDHI 150 organized a GANDHI WEEK from 30 January to 5 February 2019.

Organized a series of events. to celebrate the Mother Tongue Day, under the auspices of 150<sup>th</sup> birth anniversary of Mahatma Gandhi, Gandhi Bhawan, University of Delhi, National Council for Promotion of Urdu Language (NCPUL), Govt. of India, New Delhi and Gandhi Hindustani Sahitya Sabha, Rajghat, New Delhi,

Prof. U. Shankar (2018) Appointed as officiating Deputy Director, NCWEB w.e.f. 13th December 2018.

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## SLAVONIC AND FINNO-UGRIAN STUDIES

### Major Activities and Achievements

The Department of Slavonic and Finno-Ugrian Studies prides itself as being the only Department in the country where, besides Russian and Polish, courses in Bulgarian, Czech, Croatian, and Hungarian languages are taught. This gives the Department an opportunity to conduct a variety of activities beyond classroom teaching.

This year the Department celebrated one major landmark – thirty years of the independent establishment of the Department of Slavonic and Finno-Ugrian Studies 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.

A delegation of 20 members from different Universities of Poland visited the department and gave a presentation on opportunities for higher education in Polish Universities on 1<sup>st</sup> September, 2018.

### Publications

Beniwal, S. (2018). Виджайдан дeтха – Чехов Раджастана Vijaydan Detha – The Chekhov of Rajasthan) *Young Researchers of Chekhov*, Issue No. 08, Publisher «Литературный музей» Moscow, 2018, pp. no. 180-185.

Beniwal, S. (2018). Political Correctness and Linguistic Sexism: A Study of Indian Media Discourse. *Seniye Vural (eds.) in Understanding Culture through Language and Literature*, Cambridge Scholars Publishing, UK, 2018, pp. no. 97-111

Munjäl, G. (2019). Tolstoy & gandhi: philosophical horizons. (Ed) Gandhi Hindustani Sahitya Sabha, Rajghat, pp 164.

Munjäl, G. (2019). Leo tolstoy's kingdom of God is within you: Lasting influences on Gandhi. In Dr. Girish Munjal (Ed) *Tolstoy & gandhi: philosophical horizons*, Gandhi Hindustani Sahitya Sabha, Rajghat, pp. 131-s148.

Koves, M. (2018). Amrita Sher-Gil és a magyar irodalom, [Amrita Sher-Gil and the Hungarian Literature] Orpheus Noster, *A Károli Gáspár Református Egyetem eszme-vallás- és kutúrtörténeti folyóiratában*, X. volume, (2018), No. 2. pp.42-53.

Koves, M. (2018). Németh László, Gandhi ki mriyü, Gandhi halála [in Hindi] Translation: Girdhar Rathi- Margit Köves, *Introduction by Margit Köves*, Delhi, Rajkamal Prakashan, 2018.

Koves, M. (2019). Photo-framed Installations Second and Third Generation Narratives about the Partition and the Holocaust in Looking back. In Rakshananda Jalil, Tarun K. Saint and Debjani Sengupta (ed.), *The 1947 Partition of India 70 years on.*, Orient BlackSwan, Hyderabad, 2017, 2019 pp.54-65.

### Journal

#### Number of Department faculty serving as Editor(s)/Member(s) of Editorial board

Editor- one teacher in one journal



### **Seminars /Workshops Organized**

The Department in collaboration with Hungarian Information and Culture Centre and Embassy of Poland organized a one-day Seminar “50 years of celebrating Hungarian and Polish Language Studies in the University of Delhi” on 24<sup>th</sup> January, 2019.

National Research University, Moscow, conducted a workshop on “Monitoring studies, expert analysis, basic and applied research opportunities in Russia”. 13<sup>th</sup> November, 2018.

A two-day work shop by Ms. Justyna Guziak on “Exploring Slavonic Myths and Legends”. 5<sup>th</sup> – 6<sup>th</sup> March, 2019.

### **Conferences Organized**

The two-day International Conference "Culture, Language and Identity Formation: Diaspora in Globalizing World" supported by the University of Delhi and the Indian Council for Social Science Research (ICSSR). 27<sup>th</sup>-28<sup>th</sup> February, 2019.

### **Seminar/Conference Presentation**

James, C.V. Presented paper on *Ease of Learning Russian Through Explanatory Grammar developed from System Linguistics Perspective* in Practical Seminar, Department of Russian Language. AEC Training College and Centre, Army Centre of Education (ACE), Pachmarhi, Madhya Pradesh, 21 and 23 August, 2018.

Koves, M.

Chair, Session "English Poets of the Freedom Movement", on "Poets of The Freedom Movement" on Hindu Girls College, Jagadhri, 14-15 December, 2018.

Presented a paper "The rivalry of art and poetry, mime and drama in Hamlet" Conference on "Shakespeare's Poetry: Dramatic, Narrative, Lyrical" C.R.A. College Sonapat, Haryana, 8<sup>th</sup> February, 2019.

Presented paper *Translation of Hungarian Literature to Hindi with students of Hungarian language* in conference on "A magyar kultúra képviseletében külföldön" in Representation of Hungarian Culture Abroad, Ministry of External Affairs and Trade, Hungary Budapest, Hungary, 27<sup>th</sup>- 28<sup>th</sup> August, 2019.

Presented paper *Shakespeare's Women Characters: Growing, NOT Dwindling or Glowing* India International Conference "Shakespeare's Women-Glowing or Dwindling: A Gender Perspective" Department of English, KVA DAV College for Women, Karnal in collaboration with The Shakespeare Association, 18-19 January, 2019.

Presented paper *The first Yugoslav War in 1991 in the Hungarian and Serbian Community: Roland Orcsik's Novel: Phantom Commando* in International Conference "Culture, Language and Identity Formation: Diaspora in a Globalizing World (With Special Reference to East and Central Europe and Russia)" Department of Slavonic and Finno-Ugrian Studies, University of Delhi 27<sup>th</sup>-28<sup>th</sup> February, 2019.

Munjaj, G.

Presented paper *Translating Tolstoy's Thoughts*, in XIII International Seminar of "Translators of Leo Tolstoy & Other Russian Classics", Tolstoy Estate-Museum "Yasnaya Polyana", Tula Region, Russia, 2-5 September 2018.

Presented paper *The Problems of Translating Non-verbal Components in Literary Works*, in International Congress of "Literary Translators", Institute of Literary Translation, Moscow, Russia, 6-9 September 2018.

Presented paper *The Philosophical & Aesthetic Essence of the Concept of Motherland*, in International Conference 'Russian Studies in 21<sup>st</sup> Century: Current Trends and Innovations', Department of Russian Studies, The English and Foreign Languages University, Hyderabad, India, 24-26 October, 2018.

Presented paper *Non-verbal Elements in Elements in the Works of Leo Tolstoy*, in International Conference Leo Tolstoy: Origins and Landmarks of a Creative Journey at Kazan Federal University, Kazan, Russia, 27-29 November 2018.

Presented paper *About the Language of Russian Diaspora*, International Conference ‘Culture, Language and Identity Formation: Diaspora in a Globalizing World (with special reference to East and Central Europe and Russia)’, Department of Slavonic and Finno-Ugrian Studies, University of Delhi, 27th -28th February, 2019.

Presented paper *Polish Translation of Kunwar Narayan's hindi poetry (PolskiprzekładwierszyKunwaraNarajana)*, Hungarian and Polish Seminar, (Morning session), Department of Slavonic and Finno-Ugrian Studies, University of Delhi, 24th January 2019.

Presented paper *Innovative methodology & course on Polish Grammatical Cases*, Hungarian and Polish Seminar, Department of Slavonic and Finno-Ugrian Studies, University of Delhi. 24th January 2019

Rani, A.

Presented paper *The problem of Internal Diaspora and Identity after the fall of the Soviet Union* in International Conference ‘Culture, Language and Identity Formation: Diaspora in a Globalizing World (with special reference to East and Central Europe and Russia)’, Department of Slavonic and Finno-Ugrian Studies, University of Delhi, 27th -28<sup>th</sup> February, 2019

Rai, Yogesh Kumar. Presented paper *Russian Nostalgia for the Soviet Union: Going Back to the Future* in International Conference ‘Culture, Language and Identity Formation: Diaspora in a Globalizing World (with special reference to East and Central Europe and Russia)’, Department of Slavonic and Finno-Ugrian Studies, University of Delhi, 27th -28th February 2019

Suryanarayan, N.

*Russian Literary texts as a source of moral education of the Indian youth: A cross-cultural perspective* in Third International Conference of Indologists “India-Russia: Past, present and Future in the Context of Indological Studies, St. Petersburg, Russia, April 26-28, 2018.

*Indian perception of Bulat Okudzhava's prose* in VI International Scientific Conference dedicated to the creative heritage of Bulat Okudzhava “The unread Okudzhava. The Works of Bulat Okudzhava in the context of the culture of the XXI century Moscow, Russia December 7- 8, 2018.

*Diaspora blues and Comedy shows – Anna Fishbeyn's 'My stubborn Tongue* in the International conference “Culture, Language and Identity Formation: Diaspora in a Globalizing World (with special reference to East and Central Europe and Russia), Department of Slavonic and Finno-Ugrian Studies, University of Delhi, 27<sup>th</sup>-28<sup>th</sup> February, 2019.

#### **National/International MOUs Signed**

Elabuga Institute (Branch) of Federal State Autonomous Educational Establishment of Higher Professional Learning (Kazan (Volga Region) Federal University, Elabuga, Russia and University of Delhi w.e.f 01.02.2019

Eotvos Lorand University, Hungary and University of Delhi w.e.f 08.02.2019.

Moscow City University (MCU) Moscow, Russia and University of Delhi w.e.f 08.02.2019.

#### **Other Inter-Institutional Collaboration**

Exhibition (In collaboration with The Hungarian Information and Cultural Centre) “Unforgettable Moods, Wise Lessons, The Architect István Medgyaszay in India”. The Exhibition was organized by CentrArt, New Workshop Historians on the occasion of the 140<sup>th</sup> birth anniversary of István Medgyaszay on 23<sup>rd</sup> August, 2018.

Screening of the Film “Chitraanjali – Stefan Norblin in India” in collaboration with The Embassy of Poland Stefan Norblin, a famous Polish Painter who operated in India during WWII, 10<sup>th</sup> January, 2019.

### **Placement Details**

A Placement session with Online Aptitude Test (English+ logic) and Interviews for the students of Croatian/Polish/ Bulgarian/Czech Russian language organized by METRO SERVICES (Pune) India. Some students were selected for the second round of interviews and then offered suitable placements on 8<sup>th</sup> March, 2019.

### **Extension and Outreach Activities**

Essay writing competition on “Clean Communities, Healthy Citizens” was organized, 26<sup>th</sup> September, 2018.

Miss Leena Sarin, former student of the Department, Ph.D. from Moscow gave a talk on “Modern Russian Literature on the Internet: Major Literary Trends and Characteristics” for students of M.A. Russian Studies (Part I & II) and M. Phil/Ph. D. 20<sup>th</sup> September, 2018.

Mr. Rajesh Kumar, Mr. Ajayender Solanki, Ms. Priyanka Gupta and Mr. Shivam, who had attended summer seminar in Bulgaria Students gave a presentation about their learning experience in Bulgarian, 20<sup>th</sup> September, 2018.

Special lectures:

Dr. C. V. James, Assistant professor, Deptt. Of S.F.U.S. “Explanatory Grammar in the Context of System Linguistics”. 25<sup>th</sup> September, 2018.

Prof. Andrea Seidler, Hungarian Studies, University of Vienna, Mozart in Vienna and Prague” .

Prof. and Diplomat Piotr Klodkowski on “Polish Language as a Vital Principle of National and Cultural Identity in the Context of the 100<sup>th</sup> Anniversary of Poland’s Independence”.

Prof. Zoya Karanovic, Professor, Novy Sad University of Serbia “Legends about ‘Flying Churches’ in Serbian Folk tradition (from reality to fiction) delivered by. 07<sup>th</sup> December, 2018.

Mr. Roland Orscik – poet, novelist, assistant Professor in Croatian and Serbian languages, Szeged University, Hungary on “Me no speaking Magyar” poetry by Istvan Domonkos. 7<sup>th</sup> February, 2019.

Annual Film Festival: Little Europe, 2018-19 “Coming of Age” with active support from the Embassy of the Czech Republic and the Embassies of the Russian Federation, The Republic of Poland, Bulgaria, Hungary and Croatia in India on 23rd October – 05th November 2018.

Screening of Film:

Bulgarian, The World Is Big and Salvation Lurks around the Corner, followed by workshop conducted by Film Scholar Ms. Anandana Kapoor, 25<sup>th</sup> October, 2018.

Polish Film, See You Tomorrow followed by workshop conducted by Film Scholar Ms. Anandana Kapoor on 26<sup>th</sup> October, 2018.

Croatian Film, Armin, followed by workshop conducted by Film Scholar Ms. Anandana Kapoor on 29<sup>th</sup> October, 2018.

Hungarian Film, Sunshine, followed by workshop conducted by Film Scholar Ms. Anandana Kapoor on 31<sup>th</sup> October, 2018.

Russian Film, Legend No. 17, followed by workshop conducted by Film Scholar Ms. Anandana Kapoor on 02<sup>nd</sup> November, 2018.

A Panel discussion by European writers “Writing across Cultures, Writing across Boundaries”, 26<sup>th</sup> September, 2018.

A special lecture on

A one-day seminar “50 years of celebrating Hungarian and Polish Language Studies in the University of Delhi” An exhibition in collaboration with Hungarian Information and Culture Centre and Embassy of Poland of Polish and Hungarian Books, Handicrafts and other Souvenirs was organized at the venue of the Seminar. 24<sup>th</sup> January, 2019.

#### **Number of M-Phil/Ph.D. Degrees Awarded (2)**

M-Phil - 02

#### **Faculty Strength (3)**

Number of Sanctioned posts

Professor - 03 (2- Russian / 1-Slavic)

Assistant Professor - 08 (07- Russian\01-Bulgarian)

Present strength of Permanent faculty

Associate Professor - 03 (through CAS)

Vacant Positions:

Professors - 03

Associate Professor - 03

Assistant Professor - 05

#### **Other Significant Information**

Inauguration of Film-Festival “Coming of Age” by H.E. Ambassador of Czech Republic Mr. Milan Hovorka, followed by the Screening of the Czech Film: Closely Watched Trains, followed by workshop conducted by eminent Film Scholar Ms. Anandana Kapoor on 23<sup>rd</sup> October, Tuesday, 2018.

A book release function ‘स्त्री एवं सामाजिक प्रसंग :ममता कालिया का कथा साहित्य’ published by Vani Prakashan, Delhi, and written by Dr. Peter Sagi, Hungarian Professor of Indology, ELTE University, Budapest in the presence of the author Ms. Mamta Kalia

Prof. Apoorvanand (Department of Hindi, DU) was the special invitee and spoke about the book. On 17<sup>th</sup> January, 2019.

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### **URDU**

#### **Major activities and achievements**

The Department of Urdu is actively engaged in research and publications work in different areas of Urdu Language and Literature. A number of distinguished visitors, Professors and eminent personalities visited the Department to deliver the special lectures and interact with faculty members as well as the students of the Department.

#### **Publications**

Abbad, A.B. (2018). Afsana aur Tanqeed ke baab me chand Zaruri batein. In Prof Saheb Ali (ed.) *Urdu Tanqeed Maqsood-o-Minhaj*, pp.191-202

- Abbad, A.B. (2018). *Allama Iqbal ka tasawwur-e-ittehad, Karwan-e-Adad*, pp.33-37, Bhopal.
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- Abbad, A.B. (2018). Pandit Brij Narayan Chakbast aur Novek ki tanqeed. In Azeez Nabeel (ed.) *Pandit Brij Naraya Chakbast: Hayat aur Shakhsiyat*, pp. 359-366.
- Abbad, A.B. (2018). Pesh lafz. In Ahmad Sajjad (ed.) *Ghubar-e-shauq*, pp. 9-20
- Abbad, A.B. (2018). Shahr-e-Tanqeed ka Naqid-e-Kaj Kulah, *Fikr-o-Nazar*, Aligarh, pp.59-70,
- Abbad, A.B. (2018). Sir Syed Ki Talimi jiddo johd aur As, habe qaum, *Aiwan-e Urdu*, New Delhi, pp. 18-22. Vol. 28, i
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- Arjumand, A. (2018). Khakistar-o Khaak (Urdu translation of Afghan writer Atiq Rahimi's novelette Earth and Ashes from English), *Naya Waraq*, Mumbai, vol.19:52,pp185-230
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- Arjumand, A. (2018). Nayyar Masud ki Hunarkaari, pp 68-96.
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- Kamal, N.M. (2018). Bachchon Ka Adab aur Urdu ka farogh" in Ghazala Fatima *Masoom Jazbon ki Jamaliyat*, Delhi
- Karim, S.A. (2018). Sohail Azimabadi ki Muntakhab Kahaniyan, National Book Trust, New Delhi.
- Kazim, M. (2018). *Aik Bemisaal Ustaad: Ejaz Afzal*, *Quarterly Fikr-o-Tahreer*, Kolkata., pp 04-10.
- Karim, S.A. (2018). *Sohail Azimabadi*, Bihar Urdu Academy, Patna.
- Kazim, M. (2018). Majaz Ki Shairi Mein Aurat Ka Tasawwur.In *Majaz Ki Shairi Aur Uski Miras*, pp 173-184.
- Kazim, M. (2018). Ismat Chughtai Ke Dramey In Jamshedpuri compilation *Ismat Shanas* pp 251-266.
- Kazim, M. (2018). Jadeed Daur Ka Munfarid Afsana Nigar: Aslam Jamshedpuri. In Anis (ed.) *Ekkiswein Sadi Mein Urdu Afsana* , pp 134-148.
- Kazim, M., & Baani, D. (2019). Aik Jaiza. *Quarterly Urdu Research Journal*, New Delhi, pp: 20 – 28.
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- Khan, I.A. (2018). Abdul Qavi Desnavi aur Iqbal. In *Jahan e Urdu* (Urdu Quart.)
- Khan, I.A. (2018). Urdu Adab Per Dabistan e Sir Syed ke Asrat. In *Aiwan-e-Urdu*, (Monthly Referred Urdu Journal)

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- Omais, S. (2018). Insha aur Unke Ahad ka Tahzeebi Manzernamah. Armughan, Vol-5, Issue: 7, pp. 397-406
- Omais, S. (2018). Kaleemuddin Ahmad: Ek Bazyaft. *Urdu Journal*, Vol-8, Issue: 9-10, PP. 351-356
- Omais, S. (2018). Khud Aaghi ka Safar: Nesai Sheri Aawaz. *Urdu Duniya*, Vol-21, Issue: 03, PP.20-22.
- Qadri, M.A. (2019). Basheer Chiragh Ek Maya Naaz Shair.In *Quarterly Journal "PUNJAAB"* from Malerkotla, Punjab, issue 3.

#### **Seminar/Lecture Organised (7)**

A Discussion the Book Ghalib Aur Ahade Ghali, Published by Ghalib Institute Chaired by Prof. S R Kidwai. Date : 26<sup>th</sup> July 2018.

A one Day National Seminar on Qazi Abdus Sattar.Date:14<sup>th</sup> November 2018.

A lecture on the topic "Post Parsi Urdu Drama and Theatre" by Dr. Mohammad Kazim, chaired by Prof Syed Ali Karim (Irteza Karim), Conducted by Dr. Irshad Ahmad Khan,19<sup>th</sup> March 2019

A National Research Scholar Seminar on Urdu Adab Mein Deomalai Anasir on 27<sup>th</sup> March 2019.

#### **Seminar/Conference Presentations**

Abbad, A.B. Presented paper *Shayeri ki kehkashan ka ek tabinda sitara: Aijaz Afzal*, in one day national seminar at West Bengal Urdu Academy, Kolkata, 2018.

Khan, I.A, Asnaf-e-adab ki tadrees (National) organised by APDUT Jamia millia islamia 29<sup>th</sup> Nov 2018.

Khan, I..A. Presented paper *Sharib rudavlyi ka tanqueedi imteyazat* in shagirdan-e-sharib at Deptt of urdu University of Lucknow, 2-4 Dec 2018.

Khan, I..A, Presented paper *Urdu ka ghair afsanvi adab :1901 ta haal* at Department of Urdu JMI with NCPUL 12-14 March 2019.

Kamal, N.M, Delivered a lecture

*Non – Fictional Prose* at JMI.New Delhi 27<sup>th</sup> July 2018.

*Hindustan mein Urdu Afsana* at M.J.I. Hind, Delhi 5<sup>th</sup> May 2018.

*Adab e Atfal* at Ghalib Academy, Delhi 30<sup>th</sup> June 2018.

*Freedom Movement and Urdu* at JMI, Delhi 30<sup>th</sup> July 2018

*Tradition of Dastaanat* JMI, Delhi on 8<sup>th</sup> February 2019

*Technique of Dastan* at AMU Aligarh on 23<sup>rd</sup> March 2019

*Adab e Atfal* at Ghalib Academy, Delhi on 30<sup>th</sup> June 2018.

Kamal, N.M, Presented a Presidential address

*Akhter Sherani ki Poetry* at JNU, New Delhi 1<sup>st</sup> July 2018

*Poetry of Insha* at Ghalib Institute, Delhi, 10<sup>th</sup> November 2019

*Abdur Rahman Bijnori* at Sahitya Akademy, Delhi, 23<sup>rd</sup> November 2018

*Reading of Text* at JMI, Delhi, 29<sup>th</sup> November 2018

*Ghalib and his age* at Ghalib Academy, Delhi on 15<sup>th</sup> February 2019

Kamal, N.M., Presented a Paper

*Gautam Budh in Urdu Literature* at Gandhi Bhawan, DU 30<sup>th</sup> April 2018.

*Tradition of Folk Literature in Hindi* at Khalsa College DU, 1<sup>st</sup> November 2018

*Semaab Akbarabadi ki Poetry* at St. Johns College, Agra, 13<sup>th</sup> January 2019

*Bostan e Khayal mein Razmnigari* at JNU, Delhi, 30<sup>th</sup> January 2019

*Ghalib ke Ahd ki Dastanein* at Ghalib Academy, Delhi on 24<sup>th</sup> February 2019

Urdu Research after independence at International Conference organized by NCPUL, Delhi on 18<sup>th</sup> March 2019

*Gautam Budh in Urdu Literature* at Gandhi Bhawan, DU on 30<sup>th</sup> April 2018

*Hindustan mein Urdu Afsana* at M.J.I. Hind, Delhi on 5<sup>th</sup> May 2018

Kazim, M. presented paper

Urdu Adab Mein Metiaburj Ki Khidmaat, Key Note at a National Seminar on *Urdu Adab Mein Metiaburj Ki Khidmaat* organized by Fatehpur Village Road Ever Green Welfare Society, sponsored by NCPUL, M/O, HRD, Govt. of India, July 28<sup>th</sup> 2018.

Zafar Uganvi Ki Afsana Nigari, at a Two-Day National Seminar '*Zafar Uganvi: Hayat-o-Karname*', organized by Narasinha Dutt College, Howrah, West Bengal, 28-29<sup>th</sup> April 2018.

Urdu Fiction Ki Maujooda Soorat-e-Haal, at a Four Day Multilingual International Seminar '*Impact of Current Social Changes on Fiction*', organized by Department of Urdu, Chaudhry Charan Singh University, Meerut, 07-10<sup>th</sup> December 2018.

Research Methodology in Language & Literature, a series of Lectures in Refresher courses for University & College teachers, organized by UGC-Human Resource Development Centre (Academic Staff College), Gujrat University, Ahmadabad, 24<sup>th</sup> July 2018.

Sharib Rudaulvi Ki Tanqidi Jehaat, at a Three-Day International Conference '*Professor Sharib Rudaulvi*', organized by Department of Urdu, Lucknow University, Lucknow, 02-04<sup>th</sup> December 2018.

Contemporary performing Arts in India, in a One Day International Seminar organized by Department of Urdu for Women, Azhar University, Qairo, Egypt, November 2018.

Contemporary Social Media and our Society, in a Two-Day International Conference organized by Department of Urdu and Translation, Azhar University, Qairo, Egypt, November 2018.

*Allama Iqbal Ki Shairi Mein Funoon-e-Lateefa*, at a Two-Day National Seminar on Allama Iqbal: Life and Contribution, organized by Department of Urdu, Mohanlal Sukhadia University, Udaipur, Rajesthan, 6<sup>th</sup> & 7<sup>th</sup> March 2019.

*Biswein Sadi Ke Nisf Aakhir Mein Urdu Safarnama*, at a Three-Day International Seminar on Ghair fсанwi Urdu Nasr", organized by Department of Urdu, Jamia Millia Islamia, New Delhi, 12-14<sup>th</sup> March 2019.

*Contemporary Urdu Drama and Theatre*, an Extention Lecture, Department of Urdu, University of Delhi, Delhi, 5<sup>th</sup> March 2019

*Contemporary Urdu Theatre*, at Department of Urdu, University of Delhi, Delhi, 5<sup>th</sup> February 2019.

*Hum Asr Dastaangoi aur Naazereen*, at a National Seminar on Urdu Fiction ka Aaghaz-o-Orteqa, organized by Government Girls General College, Government of West Bengal, Kolkata, 30<sup>th</sup> March 2019.

*Mahboobur Rahman Farooqui Ki Adabi aur Sahafati Khidmaaty*, at a National Seminar on Mahboobur Rahman Farooqui Ki Adabi aur Sahafati Khidmaat, organized by Saeem Educational Trust, New Delhi, 9<sup>th</sup> March 2019.

*Niyaz Ahmad Khan Ki Adabi Khidmaat, an Extention Lecture on Professor Niyaz Ahmad Khan*, organized by The Muslim Institute, Kolkata, 15<sup>th</sup> February 2019.

*Niyaz Ahmad Khan Memorial Lecture* on the occasion of Birth Anniversary of Professor Niyaz Ahmad Khan organized by The Muslim Institute, Kolkata, February 2019.

*Qazi Abdus Sattar ka Afsana Lala Imam Bakhsh: Aik Tajziyati Mutalea*, at a Two-Day National Seminar on Qazi Abdus Sattar Aur Unka Ahad, organized by Centre of Advance Studies, Department of Urdu, Aligarh Muslim University, Aligarh, 25-26<sup>th</sup> March 19.

*Urdu: Fine Arts and Infotainment*, in a World Urdu Conference on The Protection and Promotion of Urdu Language in the Global Context of Today, organized by National Council for Promotion of Urdu Language, Government of India, New Delhi, 18<sup>th</sup> to 20<sup>th</sup> March 2019.

*Urdu Drama Par Hindustani Asaateer Ke Asraat*, at a Three-Day International Seminar on Hindustani Mazaheb: Falsafa aur Adab organized by Department of Urdu, Banaras Hindu University, Varanasi, 25<sup>th</sup> to 27<sup>th</sup> February 2019.

*Urdu Drama aur Theatre Ki Maujooda Soorat-e-Haal*, at a Three-Day International Seminar on Urdu Zabaan-o-Adab Ke Maujooda Masail'' organized by World Urdu Association & West Bengal Urdu Academy, Government of West Bengal, Kolkata, 1<sup>st</sup> to 3<sup>rd</sup> February 2019.

*Urdu Drama Mein Solah-o-Jang Ki Daastaan*, at a Two-Day International Seminar on Epic Poetry in Urdu, Persian & Arabic: A Saga of War and Peace'', organized by World Urdu Association & Centre of Indian Languages, Jawaharlal Nehru University, New Delhi, 30-31<sup>st</sup> January 2019.

Kazim, M. ,*Urdu Drama Ki Tareekh Nawesi: Aik jaiza*, in a One Day National Seminar on Urdu Tareekh Navisi Ki Tashkeel-e-Nau, organize by Anjuman Taraqqi Urdu Hind, New Delhi, 24<sup>th</sup> March 2019.

Omair, S.

Presented paper Insha Allah Khan Insha and Indian Tradition in two-day national seminar Insha Allah Khan Insha aur Inke Ahad ka Tahzeebi Manzernamah by Ghalib Institute, New Delhi. 10th -11th, November 2018.

QAUMIYAT AUR URDU ADAB in one day National seminar on contemporary literature and Nationalism organised by Rajdhani College University of Delhi, December 2018.

*Iqbal ka Fikri-o-Nazaryati Irteqa* in Two-day national seminar on Iqbal Ki Fikri Jehat, by Faith Foundation and sponsored by NCPUL, New Delhi 29<sup>th</sup> -30<sup>th</sup> March 2019.

*Sayeed Ahmad Akbarabadi Bahaisiyat Safarnama Nigar* in one day national seminar on Prof. Maulana Sayeed Ahmad Akbarabadi: Shakhsiyat aur Khidmat by Jamiat Faizan-e-Ulama-e-Hind with Collaboration of NCPUL, Delhi, 30 th March 2019.

*School me Zariya-e-Taleem Ki Soorat-e-Haal (Urdu ke Hawale Se* in one day national seminar Urdu Zariya-e-Taleem aur Sarkari Idare: Masael aur Imkanaat by Pragatisheel Mazdoor Jan Kalyan Sewa (reg) in Collaboration of NCPUL, New Delhi. 24<sup>th</sup> March 2019,

*IQBAL AUR QURAAN* in Two-day National seminar on IQBAL KI FIKRI JEHAAT by Faith foundation, 29<sup>th</sup> -30<sup>th</sup>, March 2019.

Qadri, M. A. Presented a paper

*Mughlia Ahad Ke Akhri Daur Ka Farsi Adab Tasawuf Ke Hawale Se* in International seminar at Ghalib Institute on 23 November 2018.



*Daure Hazir Mien Krishen Chander Ki Afsana Nigari ki ahmiyat o ifadiyat*, in National seminar at Kathua Jammu in December 2018.

*Akeeswiin Sadi Main Urdu Adab* in National seminar at Srinagar, 15 July 2018.

Maulana Mamlookul Ali Ki Maktoob Nigari in National seminar at Islamic Cultral Centre in New Delhi 2018.

*Punjab Mein Urdu Adab* in National seminar at Malerkotla Punjab, Feb 2019.

#### **Number of PhD/MPhil. Degree Awarded**

PhD	-	12
M.Phil.	-	23

#### **Faculty Strength**

Total Faculty Strength	-	15
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### **FACULTY OF AYURVEDIC & UNANI MEDICINE**

#### **Introduction**

The Faculty of Ayurveda & Unani Medicine has been affiliated with Ayurveda & Unani Tibbia college, Karol Bagh for running courses in Ayurveda & Unani Medicine both bachelors and post graduate courses. The Ayurvedic and UnaniTibbia College, popularly known as Tibbia College is a premier institute of country. It's uniqueness lies in the fact that it is the only institute in the country to offer education and training in two ancient system of Medicine viz. Ayurveda and Unani under one roof. Apart from this institute one New Institute was added in the field of Ayurveda, the All India Institute of Ayurveda (AIIA), SaritaVihar. The institute offer Postgraduate, doctoral courses and specialty fellowship programmes in various discipline of Ayurveda.

#### **Ayurvedic & Unani Tibbia College**

#### **Major Activities and Achievements**

The Institution provides education & training in two 02 ancient streams of medicine, viz., Ayurveda & Unani Tib under one roof. In Bachelor of Ayurveda Medicine and Surgery (BAMS) there are 60 seats and in Bachelor of Unani Medicine and Surgery BUMS) there are 60 seats. In post graduate courses there are 03 seats in MD Ayurveda( Kriyasharir) and 10 seats in MD Unani medicine( Iimul Saidla 3, Moalajat 3, Munafeul Aza 2, QabalatWaAmrazeNiswan 2) .

The Institution has an historical background owing to its establishment in the year 1916. It was inaugurated by the Father of Nation, Mahatma Gandhi. Hence, it has been showcased during the Republic Day Celebrations-2019 as one the historic places of Delhi visited by Mahatma Gandhi on the 13<sup>th</sup> February, 1921. It is one of the oldest institutions of the University of Delhi.

It provides healthcare in these systems through on 240-bedded teaching hospital having 15 OPDs and IPD. It also provides facilities, such as X-Rays, Ultrasonography, Patho laboratory Panchkarma, Kshar sutra and Ilaj Bit Tadbir.

#### **Publications**

Shamim and Mohammad Idris (2019). *Datura stramonium (Dhatura) - Pharmacological Actions, Therapeutic Uses and Phytochemistry - A Review: International Journal of Pharmacy and Biological Sciences*. 9(1). 622-631.

ii. Anju and Mohammad Idris (2019). Murdarsang- An effective mineral origin Unani drug: *Asian Journal of Pharmacy and Pharmacology*. 5(X). 451- 455.

Anju and Mohammad Idris (2018). Design & development of Unani Mucoadhesive vaginal tablet- An innovative approach: *International Journal of Research in Pharmacy and Pharmaceutical Sciences*. 3(3), 23-27.

Anju and Mohammad Idris (2018). A brief review on Unani mucoadhesive vaginal drug delivery system: *International Journal of Research in Pharmacy and Pharmaceutical Sciences*. 3(3), 23-27.

Anju and Mohammad Idris (2019). Kanocha (*Phyllanthus maderaspatensis*)-A Popular Unani Drug: *International Journal of Institutional Pharmacy and Pharmaceutical Research*. 14 (2). 14-19.

Anju and Mohammad Idris (2018). A Brief Review on a Unani Drug: Khatmi (*Althaea officinalis*): *Asian Journal of Pharmacy and Pharmacology*. 4 (4). 394-398.

Anju and Mohammad Idris (2018). A Versatile Unani Drug: Asapghol (*Plantago ovata*). *International Journal of Pharmacy and Pharmaceutical Research*. 12 (4): 76-86.

Anju and Mohammad Idris (2018). Makoy (*Solanum nigrum*)- A Review on a Unani Drug: *Journal of Pharma Research*. 7 (9). 204-209.

Anju and Mohammad Idris (2018). Methi (*Trigonella foenum-graecum*): A Multifunctional Unani Drug: *Journal of Herbal Medical Research*. 3 (26).1-9.

Anju and Mohammad Idris (2018). Alsi (*Linum usitassimum*) - A Potential multifunctional Unani drug. *Advance Pharmaceutical Journal*. 3 (3).76-82.

Seema Rani, Khaleequr Rahman and Mohammad Idris (2018). Ethnomedicinal, Pharmacological and Phytochemical Screening of Supari (*Areca catechu* Linn.) - A Review: *Research & Reviews- A Journal of Pharmacology*. 8 (1). 6-20.

Some faculty members are serving as Editor /Reviewer.

### **Research Projects**

Dr. Sujata Rajan, Associate Professor, Deptt. of Kriya Sharir has been awarded a research project.

### **Seminars organized**

A number of departmental seminars were organized in the Post-Graduate Departments of *Kaya Chikitsa*, *Kriya Sharir*, *Ilmul Saidla*, *Moalajat*, *Munafeul Aza* and *Qabalat wa Amraze Niswan*.

### **Conference organized**

02 Continuing Medical Education (CME) were organized in the discipline of *Dravyaguna* and *Panchkarma*.

01 Workshop on *Panchkarma* was organized.

### **Placement Details (No. & Percentage of students placed)**

More than 80% of students got placement in Private sector.

### **Extension and outreach Activities**

02 OPDs (01 each in Ayurveda & Unani) are running at Multispecialty Clinic, Ballimaran, Old Delhi.

### **Faculty Strength**

**Ayurveda : 25**

**Unani : 22**

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## **All India Institute of Ayurveda (AIIA)**

### **Major Activities and Achievements**

This is first ever All India Institute of Ayurveda (AIIA), set up along the lines of AIIMS, was dedicated to the Nation by the Honorable Prime Minister, Shri Narendra Modi on 2nd Ayurveda Day on 17th October, 2017 at New Delhi. Set up as an apex institute under the Ministry of AYUSH, AIIA is bringing synergy between the traditional wisdom of Ayurveda and modern diagnostic tools and technology. 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 first of its kind in the country to make use of tools & technology of modern science and modern medicine for scientific validation of fundamental principles and for undertaking R&D, quality control & standardization and safety evaluation of Ayurveda medicines. Interdisciplinary Clinical research and human resource development programs of the institute is helping in capacity building in addressing unmet needs of Ayurveda sector. The Institute initially set-up as an Autonomous registered body of Ministry of AYUSH (Registration No. S-E/93/Dist. 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. All India Institute of Ayurveda, New Delhi, strives hard to improve health status and expand preventive, promotive, curative, palliative and rehabilitative services to large sectors of the society. The clinical services for out patients were initiated in 2014 whereas the academic session commenced from 2016.

Currently MD courses are running in 11 subjects with 56 post graduate seats. Ayurveda Samhita & Siddant (4), Dravyaguna Vigyan (4), Kaummmmarbhritya /BalRoga (93), Kayachikitsa (9), Panchkarma(6), Prasuti & StriRoga (6), Rasa Shastra & Bhaishajya Kalpana (6), Roga Nidan & Vikrit Vigyan (4) and Shalaky (5) seats.

### **Honours/Distinctions**

Prof. Manjusha Rajagopala received Life Time Achievement Award in National seminar on, the concept of public health in Ayurveda' 25-02-2019, organized by All India Ayurvedic Specialist (PG) Association Branch, Bareilly.

Prof. V. D. Agrawal was conferred with Lifetime achievement award in national conference on Ayurveda on public health at Bareilly, Feb., 2019.

Dr. V. G. Huddar was conferred with Ayurveda Martand award in CME on Management of chronic kidney disease through ayurveda at All India Institute of Ayurveda in association with All India Ayurveda PG association. Mar., 2019.

Dr. Shibani Dash, won the first prize in Menopause awareness campaign in quiz competition.

Dr. Anu Ruhela won the first prize in Essay writing competition during Cancer Awareness week at AIIA. Feb., 2018.

Dr. Galib received Young Scientist Award by CCRAS, Ministry of AYUSH, Apr., 2018.

### **Publications**

Kumawat, N. K., Kishore, D., Vaishya, J. K., Balakrishnan, P., & Nesari, T. M. (2019). *Tinospora cordifolia*: A wonderful miracle herb of 21st century of India. *Medicinal Plants-International Journal of Phytomedicines and Related Industries*, 11(2), 117-122.

Pandey, V., Vaishya, J. K., Balakrishnan, P., & Nesari, T. M. (2019). Thematic Herbal Gardens. *Medicinal Plants-International Journal of Phytomedicines and Related Industries*, 11(3), 228-232.

Rao, M. V., & Harti, S. (2019). AYUSHCHARYA 2018–‘A National Conference on Dinacharya and Ritucharya for public health promotion’. *Journal of Ayurveda and integrative medicine*, 10(3), 230.

Panigrahi, M., Vyas, M., Baghe, A. S., Vyas, H., & Mohanty, K. P. (2018). Concept of Karya-Karana Siddhanta: A review. *Research and Reviews: A Journal of Ayurvedic Science, Yoga and Naturoapthy*, 4(3), 31-36.

Sujata Dhoke, Shubhangi Kamble, A.S. Baghel, Hitesh Vyas, Mahesh Sharma, P., Vyas, M., k Bhojani, M., & Kaushik, R. (2018). Significance of Sara Pariksha in Ayurveda: A Critical Review. *Research and Reviews: A Journal of Ayurvedic Science, Yoga and Naturoapthy*, 5(3), 1-6.

Vyas, K. Y., Shukla, V. J., Ruknuddin, G., & Prajapati, P. K. (2017). Pharmaceutical Standardization of Guggulu Sodhana. *Journal of Ayurveda Medical Sciences*, 2(2).

Ruknuddin, G. (2018). Do Ayurveda drugs induce liver injury?. *World journal of hepatology*, 10(3), 400.

Kaur, H., Ruknuddin, G., Patgiri, B., Bedarkar, P., & Prajapati, P. K. (2018). Synoptic Review on Astangavaleha-A Polyherbal Ayurvedic Formulation for Bronchial Asthma. *Journal of Ayurveda Medical Sciences*, 3(1).

Bhinde, S. S., Bhinde, S. M., Galib, R., & Prajapati, P. K. (2018). Ayurvedic management of rheumatoid arthritis: A case study. *Medical Journal of Dr. DY Patil Vidyapeeth*, 11(2), 186.

Gupta, S. (2019). Management of Chronic Kidney Disease (Mutraghata) through Ayurveda regimen: A Case Report. *National Journal of Research in Ayurved Science*, 7(01).

Ghodela, N. K. (2017). Dietary Regimen for Wound Healing -An Ayurveda Perspective *Journal of Ayurveda and Integrated Medical Sciences (ISSN 2456-3110)*, 2(1), 154-161.

Damami, S. K., Yadav, P. R., Ruknuddin, G., & Prajapati, P. K. (2019). Antioxidant Potential of selected Ayurvedic formulations-A review. *Journal of Ayurveda and Holistic Medicine (JAHM)*, 7(1), 73-94.

Ruhila, A., Yadav, P., Ruknuddin, G., & Prajapati, P. K. (2018). Review of Anti-cancer Activity of Metals and Minerals. *Journal of Ayurveda Medical Sciences*, 3(3).

### **Journals**

All India Institute of Ayurveda, New Delhi

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 11

### **Research Projects**

Central Council for Research in Ayurvedic Sciences (CCRAS), 2017, Validation of Prakriti Assessment Scale/Questionnaire – A project by CCRAS, Rs. 5,86,800/- (Funds from CCRAS, New Delhi)

Ministry of HRD/Ministry of AYUSH under Hackathon 2017, 2017-2018, deployment done on 30th March 2019, Games for propagating AYUSH systems of Medicine, Rs 3,00,000/-

Ministry of HRD/Ministry of AYUSH under Hackathon 2017, 2017-2018, deployment done on 30th March 2019, Online portal for submission and real time tracking of grant applications, Rs 3,00,000/-

Ministry of AYUSH, Govt. of India, Ayurveda care for healthy Pregnancy 2018, 1.5 crore

### **Patents Filed/Granted**

Number: Two and Antitubercular herbal aerosol and Herbal aerosol Hypoxemia.

### **Seminars Organized**

Dr. Namrata Raj, Yoga teacher, International Yoga Day 2018 celebration at AIIA, 21th June 2018.

National Nutrition Week 2018 as part of Poshan Maah, AIIA, 1st to 7th Sept., 2018

Swacchata Pakhawada activities 2018, 15th to 30 th Oct., 2018

### **Conferences Organized**

State level Nursing Conference, Health Care Through Ayurveda: Scope and Future, , All India Institute of Ayurveda, Sarita Vihar, New Delhi. Apr., 2018.

Raising Towards Excellence “National Conference of Heads of National AYUSH Institutes,, Ministry of AYUSH, Govt. of India. July, 2018.

National conference on ‘Dinacharya and Ritucharya for public health promotion’ organized by AIIA under the Ministry of AYUSH,, Ministry of AYUSH, Govt. of India. Dec., 2018.

AYUSH Skill Council sector, All India Institute of Ayurveda. Nov., 2018.

### **Seminar/Conference Presentations**

Dr. Swati Chauhan, Dr. Manisha Aggarwal, Dr. Sonam, Dr. Monika national conference “8th World Ayurved Congress & Arogya Expo, Re-aligning the focus on Health, , Ahmedabad, Gujarat, Dec., 2018

Dr. Kshaymaayee P Jati, National conference “Advances in Medicine, Technology and Holistic health, Bhubaneshwar, Odisha, Jan., 2019,

Dr. Praveen Kumar Sharma, Dr. Monika, Dr. Masooda, Dr. Suman Gihar, Dr. Stuti Sharma, Dr. Nida Qamar and Dr. Anita, international conference “KAUMARCON - 2019, Jodhpur, Rajasthan, Feb., 2019.

Dr. Smrutimayee Sahoo, Dr. Preeti, Dr. Robin Badal, Dr. Gunjan Sharma, Dr. Meenakshi Sharma, Dr. Bhawna Dutt, Dr. Smita Barode, Dr. Khushboo and Dr. Niranjana Ram National conference “World Ayurved Congress & Ayushman India Expo-2019, BHU, Varanasi, Uttar Pradesh. Mar., 2019.

Dr. Nasreen Hanifa, Dr. Manisha and Dr. Mahima Gujral, Dr. Saroj Meena, Dr. Priyanka Meena Dr. Monika Sode conference “Shalya con Guwahati 2019, held at Government Ayurvedic College, Guwahati, Assam. Sept., 2019.

Dr. Anjali Sharma, Dr. Nida Qamar, Dr. Anita, Dr. Stuti Sharma, Dr. Nidhi Bajpai and Dr. Neha Dixit National conference “Suprajata 2019, at Veer Sawarkar Prathistan, Dadar, Mumbai. Oct., 2019.

### **National/International MoUs Signed**

An MoU was signed between AIIA & CSIR- Institute of Genomics & Integrative Biology (CSIR-IGIB), New Delhi on Collaboration Research under the Center of Excellence scheme of the Ministry of AYUSH Apr., 2018.

MoU signed between AIIA & IIT Delhi on Collaboration in the field of Research & Development and Academic in Ayurveda. July, 2018.

MoU signed between AIIA & Spaulding Rehabilitation Hospital, USA, Boston on the establishment of an Academic Collaboration in Ayurveda . Mar., 2019.

MoU signed between AIIA, New Delhi and The Medical University of Graz, Graz, Austria on Cooperation and Collaboration in the field of Ayurveda. Sept., 2018.

### **Other Inter-Institutional Collaboration**

Department contributed in the organization of International workshop on Medical Herbs and Therapeutic dietetics (17-20 Feb.2019)

### **Extension and Outreach Activities**

Free Health Checkup Camp, Lasa Delhi Vasundara Enclave Delhi-96.3th Apr., 2018

Inauguration of Integrated Cancer Care Unit. 25th Apr., 2018.

Free Health Checkup Camp, CRPF Public School Rohini Delhi. 12th May ,2018

International day of action for women’s health. 28th May, 2018

Free Health Checkup Camp, Tajpur Pahadi Badarpur Delhi. 9th Sept, 2018

Free Health Checkup Camp, Police Line Mukherjee Nagar New Delhi.8th Oct., 2018.

Free Health Checkup Camp at Amity University Noida. 26th Oct., 2018.

Free Health Checkup Camp, at Electrical Loco Shade. 31st Oct., 2018.

Free Health Checkup Camp at ITBP New Delhi. 24th Nov., 2018

Free Health Checkup Camp at Lalit Mahajan Public School Vasant Vihar New Delhi. 20th Dec. ,2018

Republic day celebration at All India Institute of Ayurveda, New Delhi. 26th Jan., 2019

Voluntary Blood Donation camp organized. 30th Jan., 2019.

Free Health Checkup Camp at Mahashwari Seva Trust Sc. – 7 Faridabad. 3rd Feb., 2019.

Free Health Checkup Camp at D-10, Matawali Gali, Chandra Nagar, Main Kraval Nagar Road Jyoti Shadhara. 6th Mar., 2019.

### **Other Significant Information**

#### **Library Development**

The Institute Library plays a significant role to serve the faculty members, residents, research fellows, staff and students.. It is computerized and includes Circulation Section, Periodical Section, Reference Section and Book section. The Institute Library is in process of getting equipped with 3M (RFID) detection system and is under electronic Surveillance that helps ensure no reader takes library material without being checked out.

#### **Collections**

Books	:	15,376
CDs	:	300
News Papers	:	06
Magazines	:	08

Many doctors have won prizes in competitions

Dr. Poonam Gulati was declared 2nd runner up at Manthan – State Level, Himalaya.n 15th Mar., 2018.

Participated in “Cancer Awareness Week” and got 3rd prize in Scientific Writing Competition. Feb 3- 9

1<sup>st</sup>prize for ‘ShrutaLekhan Competition’ for non- Hindi speaking staff and students at AIIA as a part of Hindi Pakhwada.14th to 28th Sept., 2018.

Dr. Poonam Gulati was honored with price for a best paper presentation on Busspue ageing in International Seminar – 2018 on “Jara – A focus on geriatric absorder. 29 & 30 Aug., 2018.

Participated in Short film competition held as a part of Swachhata Pakhwada name of film was “Swachhata hi Seva”in AIIA New Delhi and got 2nd prize in the same. 16-30th Oct., 2018

**Faculty Strength: 35**

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## **FACULTY OF COMMERCE AND BUSINESS**

### **COMMERCE**

#### **Major Activities and Achievements**

Department of Commerce has marked its excellence not only in the field of academics but also in extra-curricular activities. It was actively engaged in the revision of undergraduate and post-graduate syllabi. MBA(IB) and MBA(HRD) organized the Annual Management Fest (Synergy'18) having remarkable events Corporate Cracker, Quizzitch, Couch Potato, Ad Mad and Fifa captivated a large audience. Erudition 2018 Business Convention was held on 13 October 2018 on the theme 'Blurring Boundaries Uncharted Frontiers' and Symposia by MBA(IB) and MBA (HRD) illuminated and elucidated the students to the corporate world. Various lecture series by experts expounded the scholars with methodology and their experience.

Further, the Department celebrated "World Smile day" engrossing the attention of not only staff but also the non-staff members. In addition, the occasion of "International Women's Day" marked the achievements of females.

#### **Honours/Distinctions**

##### **Prof. Ajay Kumar Singh**

Leadership in Higher Education Award 2018 was conferred by Higher Education Forum at 6th Regional Conference on "Quality & Accreditation of Higher Education in India: Policy & Best Practices" at The Maharaja Sayajirao University of Baroda

Appreciation Award to the Club Trainer Rtn. for serving the community for the year 2017-18, conferred by Rtn. Sachin Gupta, President, Rotary Club of Delhi Maurya (Rotary International District 3012), & Chancellor, Sanskriti University

##### **Prof. Madan Lal**

Best paper award for "Growth and Instability in India's Service Export: A Policy Period Analysis" presented at two-day Seminar on Strategic Business Imperatives: Fostering Growth and Innovation held at Sri Aurobindo College, University of Delhi, January 18-19, 2019

##### **Prof. R.K. Singh**

Best paper award for a paper on "Corporate Social Responsibility and Organizational Commitment: A Meta-Analysis" at Academics era International Conference, Oxford, invited to deliver 10th Professor P.N. Singh memorial lecture at Delhi School of Professional Studies & Research, Delhi

##### **Prof. V.K Shrotriya**

Best Business Academic of the Year (BBAY) Gold Medal Award for 2018 for presenting the paper "Exploring relationship between Entrepreneurs' Success, Psychological Capital and Financial Performance - A study of start-up entrepreneurs' in India" at Osmania University on 20-22 Dec 2018

#### **Publications**

Aswal, Chandini and Sharma, Kavita (2018). Determinant Factors of Consumer's Green Purchase Intention: The Mediating Role of Innovativeness, *Journal of Business Studies*, Vol. X, 57-68.

Aggarwal, P. and Singh, A. K., (2018). CSR and sustainability reporting practices in India: An in-depth content analysis of top-listed companies. *Social Responsibility Journal*. Emerald Group Publishing Ltd.

- Batra, G., Singh, R.K. & Sharma, J. P. (2018). *Stakeholders Influence on Sustainability Disclosures: An Empirical Investigation*. *Business Analyst*, 38(1), 131-152
- Bhasin, N. & Arora, N. (2018). India's evolving role in addressing climate change concerns. *Management and Economics Research Journal*, 5(S3).
- Bhasin, N. & Garg, S. (2018). Does host country institutional quality act as a differentiator in intra-regional FDI? Evidence from selected Asian economies. *Foreign Trade Review*, 53(2), 81-97.
- Bhasin, N. (2018). *Ease of Doing Business in India: Past, Present and Future*. New Century Publications: New Delhi
- Batra, G., Singh, R.K. & Sharma, J. P. (2018). Stakeholders Influence on Sustainability Disclosures: An Empirical Investigation. *Business Analyst*, 38(1), 131-152
- Chandra, A., Shukla R. & Gupta, A. (2018). Digital payment usage, acceptance and its impact on consumer behaviour: A study of Delhi region. *Journal of Management Research & Insight (ISSN: 2456 1088)*, 3, 3-13.
- Dangi, H. K., Kaur, A. & Jamb, J. (2019). Structural Equation Modelling: A powerful antibiotic. Accepted for publication in *Journal of Business Thought* (March 2019-April 2020), Vol. 10 Dangi, H. K. & Saini, R. (2018). Measuring effectiveness of Social Networking Sites using AHP. *Effulgence*, Vol 16 No 1 (Special issue) pp.40-46
- Dangi & Rashmi, H. K. (2018). Blinded or Branded? Effect of Brand Cues on Customer Evaluation of Store Brands versus National Brands in an Emerging market. *Mint. J. of Indian Culture and Business Management*. Vol.16 No.2 pp 170-202.
- Dangi, H. K & Malik, A. (2018). *Business Research Cases*. Index International Ghaziabad Uttar Pradesh
- Jain, M. K., Chandra, A. & Gupta R. K. (2018). Do merger and acquisition practices connect to non-monetary issues? *Saaransh R K G Journal of Management (0975-4601)*, 9(2), 9-13.
- Jhunjhunwala, S. (2018). Control Conflict, Cost and Activism, *IUP Journal of Corporate Governance*
- Makkar, Shikha and Singh, Ajay Kumar (2018) Development of a spirituality measurement scale, *Current Psychology*, 1-8. Springer Science Business Media, LLC, part of Springer Nature 2018.
- Jhunjhunwala, S. & Shweta (2018). *Corporate Governance and Innovation, Flexible Strategies in VUCA Markets*. Springer Nature Singapore Pte Ltd.
- Lal, M. & Kashyap, H. (2018). Contributory Factors to Changing Consumer Complaint Behaviour, *International Journal of 360 Management Review*, 06, (02), 28-54.
- Sharma, Kavita and Rawat, Megha (2019). Consumer Behaviour Toward Highly Energy Efficient Product: Influence of Sociability, Product Knowledge and Concern for the Environment in *Towards a Sustainable Future: Cross-Cultural Strategies, Practices and Advancements*, ed. Bloomsbury India
- Sharma, Kavita and Kaur, Parminder (2019). A Study of Relationship of Franchisor and Franchisee, *Business Analyst*, Vol 39, Issue 1, January -June, 150-164
- Singh, Amit K. & Shrivastav, R. (2018). Evaluating the impact of the Global Financial Crisis on the Stock Markets of BRICS Countries. *Indian Journal of Finance*. Vol 12, No.7, 2018, pp 37-42,
- Sharma, Kavita and Gupta, Swati (2018). *Principles of Marketing*, Taxmann Publishers.
- Sharma J. P. & Kanojia, S. (2019). *Business Laws*. Bharat Law House, Bharat Law House.



Sharma, J. P., Kanojia, S. & Gupta, S. (2018). An Empirical Evaluation of Legislative Reforms For E-Corporate Governance in Indian Companies. *Australasian Accounting, Business and Finance Journal*, Vol 12, Issue 2, 29-45.

Sharma, J. P., Kanojia, S. & Sachdeva, S. (2018). Comparison of Whistle blower Protection Mechanism of Select Countries. *Indian Journal of Corporate Governance*, Vol 11, Issue 1,

Sharma, N.& Lal, M. (2019). *Empirically examining green trust to gain green competitive advantage through green purchasing intentions published in Green Consumerism, Perspectives, Sustainability, and Behavior (Ed)*. Apple Academic Press, Inc.9 Spinnaker Way Waretown, New Jersey 08758 USA

Singh, Amit K., Kalra, S. and Jham, J. (2018). Factors Predicting IPO Performance: An Analysis. *Indian Journal of Research in Capital Markets*, Vol 5, No.3, 2018, pp 37-42,

Singh, R. K & Sharma, N. (2018). *Workplace Spirituality in the edited book on 'Recent Developments in Management and Marketing*. Misha Books, New Delhi, 133-140.

Singh, R. K. & Babbar, M. (2019). *An Inclusive Lens to Different Religions at the Workplace*. published in Proceedings of National Conference on 'Global Sustainable Innovations and Alliance', Maximax Publishing House, Delhi

Singh J. K. & Singh, A. K. (2018). *Investing in Stock Markets*. A.K Publications

Singh, R.K., Sharma, N., Sachdeva, T. (2019). Values, Organizational Culture & Organizational Effectiveness in India. *The Indian Journal of Industrial Relations Vol-54 (4), 2019*.

Singh, R.K. & Chaudhary, P. (2018). Measuring impact of organizational culture on creativity in higher education. *Quality Assurance in Education*, Vol. 26 (4), 2018, 410-422.

Singh, R. K. & Arora, S. (2018). The Adoption of Balanced Scorecard: An exploration of its antecedents and consequences. *Benchmarking: An International Journal*, Vol. 25(3), 2018, 874-892.

Singh, R. K. & Batra, G. (2019). *Stakeholders perceptions on motivations and impediments in corporate sustainability reporting*. in a book on, "Business Innovation and Sustainability", Bloomsbury India, 1-17

Shrotryia, V. K. & Dhanda, U. (2019). Content Validity of Assessment Instrument for Employee Engagement. *SAGE Open*.9 (1). 1-7

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)*

Tomar, S.K, Kaur, A and Dangi, H. K. (2018). Impact of Spatial–Temporal Variations on Fire Vulnerability: A Case Study of The South-West Division of Delhi, India. *Wit Transactions on Engineering Sciences*, Vol 121, 2018 WIT Press pp. 273-282

Tripathi, V. and Panwar, N. (2019). *Investing in Stock Markets*, 3rd Ed. Taxmann Publications.

Tripathi, V. (2018). *Fundamentals of Investment* 2<sup>nd</sup> Ed. Taxmann Publications.

### **Journals Published by the Department**

Journal of Commerce and Business Studies ISSN: 2322-0767

### **Number of Faculty Members Serving as Editor(s)/ Members of Editorial Board -6**

### **Research Projects**

Indian Council of Social Science and Research, *An Analysis of Trade, Economic Growth and Poverty in India*, Prof Madan Lal, Rs. 300,000.

Department of Consumer Affairs, Ministry of Consumer Affairs, Food & Public Distribution, Government of India, 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, Dr Ashish Chandra ,Rs. 10,00,000/-

ICSSR Delhi, Pre-purchase Information Search Behaviour for Healthcare Services, Dr H.K. Dangi, Rs. 3,00,000.

### **Seminars Organized/ Guest Lectures Organized**

#### **Total Number: 43**

Mr. Saleem Mustafa, Content writer and lyricist, *Issues of plagiarism in academic research*, Date :24th Dec 2018.

IISAC (Industry Interaction and Student Activity Committee) organised Symposia MBA(IB) and MBA(HRD) on 8<sup>th</sup> & 9<sup>th</sup> September 2018 and 15<sup>th</sup> & 16<sup>th</sup> September 2019

Sri Guru Gobind Singh College of Commerce, University of Delhi in association with Department of Commerce, Delhi School of Economics, University of Delhi and PHD Chamber of Commerce and Industry, Knowledge Partner organized 'Vimarsh 2019' on "Transforming India's Business Landscape: Role of Disruptive Innovation & Entrepreneurship" on February 26 2019

Geetanjali Shivdasani, Enel Green Power was invited for lecture on "*Employee Engagement*", Date: 18<sup>th</sup> January 2019

Karan Primlani, Magicbricks presented on How to be successful in competitive Market and an Overview on Magicbricks, Date :9<sup>th</sup> March 2019

Madhukar Vyas, Shree Balaji Group presented on *Corporate Experience and controlling Tools*, Date: 25<sup>th</sup> January 2019

Sangram Sinha, Pernod, Ricard India presented on Cultural impacts on *International Marketing*, Date: 2<sup>nd</sup> Feb 2019

Deepak Mann, Helpusgreen.com, *Social Entrepreneurship - A Story of Change* Date: 2<sup>nd</sup> Feb 2109

Dr. Rupendu Bhowmick presented on *Global Trends Strategic Management*, Date: 15<sup>th</sup> Feb 2019

Prof. Rajneesh Nararula, John H. Dunning chair of International Business regulation at the Henley business school, university of reading, UK , Brexit – The limits of uneven globalization Date: 22<sup>nd</sup> Jan 2019

### **Conferences Organized**

23<sup>rd</sup> Business Convention Erudition "Blurring Boundaries Uncharted Frontiers" organized by MBA-IB and MBA -HRD, on 12<sup>th</sup>-13<sup>th</sup> October 2018.

Guests of Honor -Mr. Rajeev Talwar, (President of PHD Chamber of Commerce and Industry, CEO & Full-time Director at DLF Ltd. Dr. Ajay Dua, (Former Secretary, DIPP, Ministry of Commerce and Industry.

### **Seminar/Conference Presentations**

Bhasin. Niti

Talk on "*Industrial Growth: Burning Issues and Way Forward*" held on May 10, 2018 at PHD Chamber, New Delhi.

Presented paper "*Impact of Bilateral Investment Treaties (BITs) on Foreign Direct Investment Flows in BRICS Economies*" at the Sixth IIFT Conference on Empirical Issues in International Trade and Finance held on December 13-14, 2018

Chandra, Ashish presented paper “*Sustainability Marketing through Social Media: An Empirical Study*”, in Suscon VII: Community, Conversation and Co-Operation – 7th Annual International Conference on Sustainability organized by IIM-Shillong during November 29 to December 01, 2018.

Dangi, H.K. and Anuradha Malik presented paper “*Pre-purchase information search behaviour for healthcare services*” in International Conference on Global Health and Medical Tourism jointly organised by Indian Institute of Management, Kozhikode and IIHMR Jaipur at IIM Kozhikode during 7-10 March 2019.

Kanojia, Sunaina

Presented a paper titled “*Corporate Governance Failure: A Study of Kingfisher Airlines*”, in GSOM Emerging Markets Conference 2018 held in St Petersburg University, Russia, October 4-6, 2018.

Delivered Special Lecture on *Data Protection*, PGDAV College on February 2019.

Delivered Special Lecture on *General Data Protection Regulation* on February 2019, in Annual cyber cell festival of Daulat Ram College.

Lal, Madan

Presented paper “*Growth and Instability in India’s Service Export: A Policy Period Analysis*” at two-day Seminar on Strategic Business Imperatives: Fostering Growth and Innovation held at Sri Aurobindo College, University of Delhi during 18-19, January 2019.

Presented paper “*Role of Social Media in Consumer Complaints: A Comparative Study Between Government and Private School Teachers of Delhi-NCR*” in 6th National Conference on Business and Management organized by Department of Commerce, Shaheed Bhagat Singh College, University of Delhi during February 24-25, 2019.

Sharma, Kavita

Presented paper “*The Impact of Multi Fibre Arrangements (MFA) Phase out on India’s Textile and Clothing Exports to the US market*” in 71st All India Commerce Conference held at Osmania University Hyderabad during 20-22 December, 2018.

Presented paper “*A Study of Relationship Between Poverty and International Trade in India*” in AIB annual meeting 2018 at Hyatt Regency Minneapolis United States of America (USA) during 25th -28th June 2018.

Delivered a talk on *Research Methodology-Literature Search & Review* in Jiwaji University, 1st August, 2018.

Delivered a talk on *Research Methodology in Faculty Development Programme* at Maitree College, University of Delhi. 13th November, 2018.

Invited for talk on *Gender Roles and Marketing Decisions* in Orientation programme organised by CPDHE, University of Delhi, 29-January, 2019.

Invited as Guest of Honour in the inaugural Session of 3rd National Marketing Seminar at Prestige Institute of Management, Gwalior, 16<sup>th</sup> March 2019.

Chairperson of Technical Session *Marketing in 21<sup>st</sup> Century* held during 6<sup>th</sup> National Conference on Business & Management: Guiding the Way through 21<sup>st</sup> Century, 25<sup>th</sup> January, 2019.

Panel Speaker in Open House Discussion on *Revitalizing the Exports Growth Trajectory* organised by PHDCCI, 27<sup>th</sup> March, 2019.

Singh, R. K.

Co- presented a paper on *“Motivations and Impediments in Sustainability Reporting from the Stakeholder Lens”* presented at national conference on “Emerging Issues in Global Business Research and Management Practices” organised by Kirori Mal College, University of Delhi on November 16<sup>th</sup> - 17<sup>th</sup> 2018.

Co-presented paper *“Stakeholders Perceptions on Motivations and Impediments in Corporate Sustainability Reporting”* at International Management Conference on Advances in Management through Research, Innovation and Technology organised by Fortune Institute of International Business, Vasant Vihar, New Delhi on 19<sup>th</sup> and 20<sup>th</sup> December, 2018.

Co- presented a paper on *‘A Theoretical Model for Workplace Spirituality’* presented at 4th National Conference on Contemporary Reforms in Management, Economy and Applied Business, organized by Sri Guru Gobind Singh College of Commerce, University of Delhi on 9<sup>th</sup> February 2018

Co-presented a paper on *'Management of Religious Diversity Leads to Organizational Effectiveness: A Conceptual Model'* presented at 9th National Conference on "Global Information and Business Strategies" organised by Gitarattan International Business School, Affiliated to GGSIP University, Delhi on 7<sup>th</sup> and 8<sup>th</sup> December 2018.

Co- presented a paper on *‘A Synergistic Approach to Organizational Effectiveness Research’* presented at Two days National Conference on “Emerging Issues in Global Business Research and Management Practices” organized by Kirori Mal College, University of Delhi on 16<sup>th</sup>- 17<sup>th</sup> November 2018.

Co- presented a paper on *‘Culture & learning: A traditional and modern perspective’* at International conference on Society and management: Indian culture vis-a-vis western culture, organized by IIM, Kozhikode, Kerala, 7<sup>th</sup> - 8<sup>th</sup> December 2018.

Co-'presented a poster in absentia at the 6th European Conference on Religion, Spirituality and Health and the 5th International Conference of the British Association of the Study of Spirituality at Coventry University (UK) from May 17<sup>th</sup> to May 19<sup>th</sup> 2018.

Co-presented a paper on *‘Balanced Scorecard Adoption and Organisational Effectiveness: An exploration of PMS Effectiveness as a moderator’* at International conference on Society and management: Indian culture vis-a-vis western culture, organized by IIM, Kozhikode, Kerala, 7<sup>th</sup> - 8<sup>th</sup> December 2018.

Co-presented a paper on *‘Examining the Relationship between Individual Spirituality and Organizational Effectiveness: An Indian Perspective’* presented at 6th National Conference on Business and Management, organized by Shaheed Bhagat Singh College (University of Delhi) on 24<sup>th</sup> and 25<sup>th</sup> February 2019.

Co-presented a paper on *‘Examining the Relationship between Individual Spirituality, Religious faith and organizational performance: An empirical test of direct and moderation effects’* presented at Vivekananda international conference on “Mindfulness, Innovation, Digitization, Artificial Intelligence, Sustainability” organized by Vivekananda institute of professional studies, Delhi on 31<sup>st</sup> January - 1<sup>st</sup> February, 2019.

Co-presented paper on *‘Examining the Relationship between Individual Spirituality and Organizational Effectiveness: An Indian Perspective’* presented a paper at 6th National Conference on Business and Management, organized by Shaheed Bhagat Singh College (University of Delhi) on 24<sup>th</sup> and 25<sup>th</sup> February 2019.

Co- presented a paper on *'Religious Diversity at Workplace: A Conceptual Framework'* presented at XX Annual International Conference on "Global Vision 2030: Challenges and Opportunities" at Deen Dayal Upadhyaya College, University of Delhi on 4<sup>th</sup> and 5<sup>th</sup> January.

Co- presented a paper on *'Understanding the Nuances of Religious Diversity at Workplace'* presented (Video Conference) at Sixteenth AIMS International Conference on Management on "Management Challenges in Uncertain Environment" organised at Symbiosis Institute of Management Studies, Pune held from January 3<sup>rd</sup> -5<sup>th</sup> January, 2019.

Shrotriya, V.K

Presented paper at International Conference on Emerging India and Canada: Challenges of Sustainable Development Goals held at India International Centre, New Delhi organised by Shastri Indo-Canadian Institute on 8-9 June, 2018 on *Inequality and Human Well-being: Why do we need to shift our focus*

Presented paper at 71<sup>st</sup> All India Commerce Conference 2018 held at Osmania University, Hyderabad on 20-22 Dec 2018 on *Employee Engagement Measurement Tool for Indian Organizations* .

Chaired a technical session held on 30th March 2019 during 39th Annual Conference of Rajasthan on 30-31 March 2019

Chaired a technical session on 11 Oct 2018, in a National Conference on Trade Relations in North East India: Problems and Prospects.

Co-presented paper on *Organizational Citizenship Behavior at Delhi Metro Rail Corporation* in First International Conference on Sustainable Development and the World Economy at Janki Devi Memorial College, University of Delhi on 5<sup>th</sup> Feb. 2019.

Tripathi, Vanita chaired a session at International Conference on Business and Management, Delhi School of Management, Delhi Technological University

### **Placement Details (Number and percentage of students placed)**

MBA (IB)

Number and percentage of students placed: 44, 85%

Number of Companies visited for campus recruitment: 44

MBA (HRD)

Number and percentage of students placed: 36, 70.58%

Number of Companies visited for campus recruitment: 48

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

Ph.D.: 14

M.Phil.:19

### **Faculty Strength**

Professors: 07

Associate Professors: 08

Assistant Professor: 01

Assistant Professor (Ad-hoc): 16

### **Other Significant Information**

Department collaborated with PHDCCI for short term research project opportunities for scholars pursuing/pursued M.Phil./Ph.D. at department. Seven scholars in the first phase were selected to undertake industry/sector specific research on the topics suggested by PHDCCI. The research collaboration was coordinated by Prof. Kavita Sharma and Dr. Niti Bhasin.

Alumni Dinner was organized on January 12, 2019 at Eros Hotel, Nehru Place. Alumni Dinner provided an opportunity for alumni to connect back to the University, to one another and to current students. It witnessed melodious performance by the music society and rounds of interactive sessions with current students and alumni.

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. in November 2018

Prof. Ajay K. Singh was appointed as Dean (Works), University of Delhi, w.e.f. August 3, 2018 to May 9, 2019.

Prof. Kavita Sharma was appointed as Co-Chairperson Under-Graduate Course Revision Committee, University of Delhi and Co-Chairperson Post-Graduate Course Revision Committee, University of Delhi

ECA Society of M.COM organised seminar "Trading in Health - Risks and Return" on 24<sup>th</sup> Jan 2019.

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## **FINANCIAL STUDIES**

### **Major Activities and Achievements**

The Department of Financial Studies conducted its XXXI Annual Convention on the theme: "Leveraging Technology for Financial Innovation", on September 22, 2018 at Hotel Shangri-La, New Delhi. The Convention was inaugurated by Mr. Ramesh Abhishek, Secretary, Department of Industrial Policy and Promotion, Govt. of India, Mr. Nipun Sahni, Partner & Head for Real Estate Private Equity Investment, Apollo Global Management, delivered the Key Note Address and Prof. Youssef Errami, Dean, Ecole Superior de Commerce, Pau, France was the Guest of Honour.

### **Publications**

Maitra, D., & Dawar, V. (2019). Return and volatility spillover among commodity futures, stock market and exchange rate: Evidence from India. *Global Business Review*, 20(1), 214-237.

Sehgal, S., Pandey, P., & Deisting, F. (2018). Stock market integration dynamics and its determinants in the East Asian Economic Community Region. *Journal of Quantitative Economics*, 16(2), 389-425.

Sehgal, S., Jain, P., & Deisting, F. (2018). Information transmission between mature and emerging equity markets during normal and crisis periods: an empirical examination. *Journal of Quantitative Economics*, 16(1), 185-225.

### **Conferences Organized**

Workshop on Financial Modelling was organized on October 4, 2018.

Conference on Entrepreneurship in Financial Services was organized on November 2, 2018.

Conference by ESC Pau, France on February 7, 2019.

### **National/International MoUs signed**

The Department has signed MoU with:

1. Strathclyde Business School, University of Strathclyde
2. University of Western Sydney, Australia
3. Pike Learning Solutions

### **Placement Details (Number and percentage of students placed)**

Number of Students placed - 33 (out of 33) = 100%

Number of companies visited for campus recruitment - 20

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

Ph.D. – 3

**Faculty Strength – 08**

**Other significant Information**

Department organized series of lectures including –

Wealth Management Industry and Asset Allocation Evolution, 11<sup>th</sup> August 2018.

Corporate Banking by Ms. Rancee Sood (Kotak Mahindra Bank) – 29<sup>th</sup> August 2018.

Overview of Banking Industry and Risk Associated with Banking Operation by Mr. Neeraj Juneja, VP, RBS - 1<sup>st</sup> September 2018.

Guest lecture by Colliers International – 10<sup>th</sup> November 2018.

Guest lecture by Moneylogist – 8<sup>th</sup> February 2019.

Special Lecture by University of Birmingham – 8<sup>th</sup> March 2019.

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**FACULTY OF EDUCATION**

**DEPARTMENT OF EDUCATION**

**Major Activities and Academic Achievements**

National level conferences, seminars, symposia and workshops in the Department 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 were organized. Some of the themes covered were Understanding Diversity in Higher Educational Institutions with special focus on Teacher Training Programmes. Series of workshops were organized including Drama Education. Using Films as an Effective Pedagogic Tool in Social Science Teaching. IQAC cell conducted two workshops on administrative matters for Non-teaching employees. A monograph on the Pedagogy of Higher Education for the entire University was developed. A Resource Centre for Elementary Education was set up for researchers, teachers and other practitioners in the field. In-service teacher education Capacity Building programmes on Educational Assessment for Core Academic Unit, Directorate of Education, Government of NCT of Delhi was conducted. In-service teacher education workshops were also conducted in Research Methods and Mathematics Education for DIET Educators and a workshop was organized for Mentor Teachers in Delhi Government Schools in Educational Management. The Department was also able to develop resource material in Foundations of Education and in some Pedagogic areas like Mathematics and Social Science Education for Elementary and Secondary Teacher Education Programmes for SCERT Delhi.

**Publications**

Baniwal, V. (2018). Dialogue as Method in Buber's and Upanishadic Thought. Vedic Traditions For Education And Learning: Conference Proceedings of 13th International Conference of The World Association for Vedic Studies (WAVES). Dallas, Texas, USA, August 2-5, 2018. *Narayanan M. Komerath & Shashi Tiwari (Ed.). Johns Creek GA: SCV Inc.*

Baniwal, V. (2018). Krishnamurti's Dialogue as Being Open to the 'Other' in M. Thapan (Ed.) Krishnamurti and Educational Practice: Social and Moral Vision for Inclusive Education. *Oxford University Press*, pp.128-143.

Chander, S, Kumar, R. & Bharti (2018). Teacher Education in the 21st Century. New Delhi: *SAGE*.

Chander, S., Mukhopadhyay, M. & Kumar, R. (2018). Comprehensive Study of OER in NSOU and OSOU. *CEMCA(COL)*.

Chennat, S. & Behari, A. (Eds) (2019). Disability, inclusion and teacher education: A Holistic perspective. Delhi.

- Chennat, S. & Lakhyani, S. (Eds) (2018). Redefining disability through art. Delhi: *Global*.
- George, A. M. & Sharma, R.M. (2019). Life Ideal Learning (s) to be a 'Teacher' in B.Ed. Interaction, Observation and Learning. *Journal of Indian Education*, 5-24.
- Kanvaria, V.K. & Kukreja, D. (2018). Educational cyberspace: The prospects for higher education in India, in S.K. Panda (Ed.) Higher education in India: Opportunities and challenges (150-163). Delhi: Ankit Publications, Delhi.
- 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, New Delhi.
- Kanvaria, V.K. & Nagpal, B. (2018). Education in 21st Century: Innovations and initiations in India. *AITEA International Journal of Education and Humanities*, 2231380X, 7(14), 16-22.
- Kanvaria, V.K. & Nagpal, B. (2018). MOOC: A tool for digitalization of teacher training programmes, in P. Kaul (Ed.) Teacher education: Emerging perspectives (15-27). New Delhi: Adhyayan Publishers & Distributors.
- Kanvaria, V.K. & Nagpal, B. (2018). Social networking: A recent trend in education. *International Journal of Interdisciplinary Studies and Research*, 2349820X, 5(1), 6-13.
- Kanvaria, V.K. & Payal (2018). Challenges faced by teachers in an ICT equipped classroom. *International Journal of Innovative Studies in Sociology and Humanities*, 24564931, 3(4), 1-4.
- Kanvaria, V.K. & Payal (2018). Learning with ICT: Use and barriers from teachers' perceptions. *International Journal of Recent Scientific Research*, 09763031, 9(1).
- Kanvaria, V.K. & Sharma, M. (2018). Learning and instructional strategies: Policies and ground realities on innovations in classrooms. *Journal of All India Association for Educational Research*, 09709827, 30 (1&2), 61-78.
- 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.
- Kanvaria, V.K. (2018). Educational technology: Misconceptions among pre-service teachers and pre-service teacher educators. *Jamia Journal of Education: An International Biannual Publication*, 23483490, 4(2), 67-76.
- Kanvaria, V.K. (2018). Shiksha me takniki ki samajh evam naveen prayog, 2018. *Bhartiya Aadhunik Shiksha*, 09725636, 38(3), 105-111.
- Kanvaria, V.K. (2018). Socially disadvantaged groups, education and role of ICT. *The Sociology Teacher*, 20523181, 7(2), 28-37.
- Kanvaria, V.K. (2018). Teaching for concept attainment in mathematics: Traditional methods versus using information and communication technology. *Staff and Educational Development International*, 09719008, 22(2), 37-51.
- Kanvaria, V.K. (2019). Digital assessment practices in teacher education: Showcasing the digital plagiarism-check. *National Journal of Education*, 09729569, Under Publication.
- Kanvaria, V.K. (2019). Vidyalayi shikshak chayan: Kitna tarkik kitna sangat. *Research Reinforcement Journal*, 23483857, Under Publication.
- Kanvaria, V.K. (Ed.) (2018). Academic writing, anti-plagiarism and citations. Delhi: Shipra Publications.
- Kanvaria, V.K. (Ed.) (2018). ICT for education: A few concepts and researches. Delhi: New Delhi Publishers.



Khirwadkar, A. & Chaudhari, P. (2019). Technological Pedagogical Content Knowledge (TPACK) Preparedness of the Teacher Candidates in Pre-Service Program. *International Journal of Advance and Innovative Research*. 6(i), 54 – 59.

Negi, S. & Kanvaria, V.K. (2019). Cyber-bullying in schools: An exploration. Delhi: Ansh Book International, 9788193446140.

Prasad, R. (2018). Students with disabilities in higher education in India: A sociological analysis. *Journal of Educational Planning and Administration*, XXXII, 107-123.

Rai, G. (2018). Childhood and Growing Up. Meerut: R. Lall Publication. ISBN 93-87053-87-3.

Saxena, V. (2018). Tangential Paradigm for an Active-Reflective Teacher Educator in T.C. Dhall (Ed.) Teacher: A Reflective Practitioner for Quality Education 2018, University College of

Education, Kurukshetra University, Kurukshetra. 978-93-84789-84-8, pp.

Singh, S. (2018). Baba Sahib Bhim Rao Ambedkar kae jivan va shakshik chintan ki prasangkita. *Humanities and Social Science Review*, 5(1), 87-97. ISSN 2349-5928.

### **Number of Department faculty serving as Editors(s)/Members(s) of the Editorial Board:35**

#### **Research Projects**

Arora, P. (2018-20). Principal Investigator, ICSSR Major Research Project A study of the concept of Citizenship and Democracy among the students and teachers of Jammu and Kashmir (2018-2020); Approx. Rs. 1200000.

Chander, S. (2017-18). Co-PI, Comprehensive Study of OER in NSOU and OSOU for CEMCA (Commonwealth of Learning); Prof. Marmar Mukhopadhyay (PI); Approx. Rs. 500000.

#### **Seminar Organized**

Saxena, V. (2018). National Seminar on Internet and Mobile Safety for Children and Psychosocial and Systemic Response, organised by CIE in Collaboration with Flair.

Baniwal, V. (2019) Six-day National workshop-cum-seminar on ‘Pursuing a Philosophical Study in Education’, held at the Department of Education, University of Delhi under the aegis of IASE, Delhi University.

Behari, A. (2019). Seminar on Environment and Development: Building a Perspective in the context of SDGs under the aegis IASE-MHRD held at Department of Education, University of Delhi.

Gupta, L. (2019). National Seminar on Teachers Ideas, Beliefs and Challenges: Influences in the Classroom under the aegis IASE-MHRD held at Department of Education, University of Delhi.

Kanvaria, V. K. (2019). Post-Graduate Research Seminar in Education, Prof./Dr. S. K. Pulist, IGNOU, Application Software for Research in Education.

Kanvaria, V. K. (2019). Post-Graduate Research Seminar in Education, Prof./Dr. A. K. Rajput, NCERT, Field-experiences in Quantitative Research in Education.

Kanvaria, V. K. (2019). Post-Graduate Research Seminar in Education, Prof./Dr. Gurjeet Kaur, JMI, Ethnographic Tradition in Educational Research.

Kanvaria, V. K. (2019). Post-Graduate Research Seminar in Education, Prof./Dr. Anup K. Dhar, AUD, Action Research in Education.

Kanvaria, V. K. (2019). Post-Graduate Research Seminar in Education, Prof./Dr. Anurag Saxena, Data Distribution and Statistical Methods in Research, IGNOU.

Kanvaria, V. K. (2019). Post-Graduate Research Seminar in Education, Prof./Dr. H. Kaur Bhatia, JMI, Philosophical Research in Education.

Murti, R. (2019). Seminar on Engaging with History and Public Policy in Education: Methodological Concerns and Practices under the aegis IASE-MHRD held at Department of Education, University of Delhi.

Narang, N. (2019). National Seminar on Interface of Children's literature, school curriculum and pedagogy under the aegis IASE-MHRD held at Department of Education, University of Delhi.

Ranjan, A. (2019). Seminar on Engaging with History and Public Policy in Education: Methodological Concerns and Practices under the aegis IASE-MHRD held at Department of Education, University of Delhi.

Sinha, S. (2019). National Seminar on Literary Environment: Children's Literature in Diverse Contexts 8 March under the aegis IASE-MHRD held at Department of Education, University of Delhi.

Eminent Scientist Professor Arvind, Director, IISER, Mohali delivered the Foundation Day lecture. He spoke about Science Education and Research and its connection with society. Prof. Gauhar Raza, scientist and Urdu poet delivered the Basu Memorial Lecture which was attended by a large number of alumni. He spoke about the development of scientific temper.

#### **Conference Organized**

Lakhyani, S. (2019). International Conference on Art, February-March under the aegis IASE-MHRD held at Department of Education, University of Delhi.

#### **Seminar / Conference Presentations**

Chander, S. (2019). ICT Based Support for Human Resource towards Inclusive Educational in Inclusive Rehabilitation: Converging Mental health and Special Education needs; National Conference on Mental Health Expressions India.

Chhabra, M. & Shagufta. (2018). Learning: Views from Comparative Lens, International Conference on Learning 2018, Learning for Empowerment. Department of Education, Lady Irwin College, Delhi.

Kanvaria, V.K. (2018). Digital innovation in education: Teaching, learning and professional development. National Conference on Digital Innovation: A Tool for Sustainable Development, 30<sup>th</sup> March 2019. LLDIMS, New Delhi.

Kaur, P. & Kanvaria, V.K. (2018). Shaping the idea of green future of school minds. National Seminar on Marching Towards Green Future: Challenges, Innovation and Solution, 22<sup>nd</sup> November 2018. Himgiri Zee University, Dehradun, Uttarakhand.

Niwas, R. (2018). Keynote speaker. National Seminar on Time Management. DAV College of Education for Women, Amritsar.

Prasad, R. (2018). Delivered Popular talk on Conceptual Understanding of Learning Disability. Doomdooma College, Tinsukia, Assam.

Prasad, R. (2018). Resource person and presented a paper on Unemployment and University-Industry-Interface: Problems, Paradoxes and Possibilities National Seminar organised by IQAC, Doomdooma College, Tinsukia.

Sailaja, C. (2018). International Seminar on 'Teacher Education: Social Concerns' : Invited as initiator of a session on Gender Sensitivity in Teacher Education at Lokamanya Tilak Training College, Dabok, Udaipur, Rajasthan on 27<sup>th</sup> April, 2018.

Saxena, V. (2018). Invited talk, Understanding the Paradigm of Diversity Pedagogy. Faculty Induction

Programme UGC-HRDC, Kurushetra University, Kurushetra.

Saxena, V. (2019). Keynote Address, Impact of Digital Technology and Social Media on Education. National Seminar at Dr. D.Y. Patil College of Education Pimpri, Pune.

Saxena, V. (2019). Lecture Series. IIT-BHU-Faculty Induction Programme IIT, BHU, Varanasi.

Saxena, V. (2019). From I to Us: Evolving Paradigms of Learning Together, 25<sup>th</sup> International Democratic Conference, IDEC-APDEC, Bangalore, India.

Saxena, V. (2019). Rethinking Prevalent Conjectures in Inclusion, Fifth International

Conference on Inclusive Education, New Delhi India, Organised by Asian Centre for Inclusive Education, Bangladesh and Amarjyoti Charitable Trust Delhi.

Tanwar, A. & Kanvaria, V.K. (2018). Definition and framework for green future in higher education. National Seminar on Marching Towards Green Future: Challenges, Innovation and Solution, 22<sup>nd</sup> November 2018. Himgiri Zee University, Dehradun, Uttarakhand.

Tanwar, A. & Kanvaria, V.K. (2018). Ease of living index, governance and public life: An exploration. National Seminar on Social Economy of Human Development and Ease of Living in India, 7<sup>th</sup> October 2018. Andhra University, Andhra Pradesh.

#### **Other Inter-Institutional Collaboration**

Course Development for Pre-service Teacher Education Programmes Jamia Milia Islamia University: Curriculum Review: Member of the committee formed to review the case narratives to be used as pedagogic tools for Pre-Service Teacher Education Programmes. The first phase of two-day workshop is completed in May.

#### **Placement Details**

Managed by the Central Placement Cell of DU

#### **Number of Ph.D. / M.Phil. Degree Awarded**

Ph.D. : 19

M.Phil. : 17

#### **Faculty Strength**

Professor - 04

Associate Professor - 06

Assistant Professor - 28

#### **Other Significant Information**

Enabling Unit for students with disabilities facilitates the learning of students with disabilities. At present, needs of about 27 students, across courses and programmes of study are addressed. A collection of Braille books in Social Science has been made available to users. Recording of readings and lectures are done regularly. The Enabling Unit, facilitated the procurement of scholarships and assistive devices like tailor made laptops for students with visual impairment. Around 160 voice recording of readings, mostly in Hindi, are available in the Unit. Also, a significant number of Braille version of important books for students have been procured in 2019.

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.

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. It has a rich collection of books, reports and policy documents.

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## **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.

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## **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.), 100 seats 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. On an average 1.65 lakh patients per year were attended to in the OPD of NHMC & Hospital. 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. In 2018-19, 11972 patients were attended to, in the IPD of NHMC & Hospital, thereby achieving the target set. 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.

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. We are regularly participating in GOI programs like we celebrated World Population Month in July.

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.

### **Honors/Distinctions**

State award conferred on Dr. Sanjeev Rai Principal/HOD by Govt. of NCT of Delhi.

### **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.

### **Faculty Strength**

Permanent - 24

Guest - 13

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## **FACULTY OF INTERDISCIPLINARY AND APPLIED SCIENCES**

### **BIOCHEMISTRY**

#### **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 seminars by national and international experts were organized in the department round the year. The department successfully completed the formalities for NAAC evaluation and organized the visit to the department and campus by NAAC Peer Team. The department organized an educational tour to IHBT, Palampur and a visit to McLeod Ganj for students. The department organized Swachhata Pakhwara from 1<sup>st</sup> to 15<sup>th</sup> September 2018 on the theme “Go Green, Go Clean”. The department strengthened and re-organized its website to make it extremely informative. The revision of syllabus for Bachelors’ Biochemistry programme (CBCS) as per Learning Outcome Based Curriculum Framework (LOCF) guidelines was initiated. Faculties were engaged in high-end research towards understanding and developing strategies to combat cancer, malaria, cardiovascular diseases, tuberculosis, leishmaniasis and targeted gene and drug delivery using Sendai virosomes.

#### **Honours / Distinctions**

First Prize / Best poster award - Sanjay Kumar Dey, Pankaj Prabhakar, Vikash Kumar Panchal, Manisha Saini, BK Thelma, CC Kartha, Subir K Maulik and Suman Kundu. (2019) “Inhibitors of dopamine- $\beta$ -hydroxylase identified by structure based methods prevented elevated systolic blood pressure and cardiac hypertrophy in rat models.” 7<sup>th</sup> Symposium on the “Current trends in drug discovery research 2019” organized by CSIR-Central Drug Research Institute, Lucknow, India, during 20<sup>th</sup> - 23<sup>rd</sup> February, 2019.

Yama Atri, Hina Bharti and Alo Nag (2019). Ubiquitin ligase, Cullin4A with an impact in cervical carcinogenesis. 8<sup>th</sup> National Science Day Symposium, 27<sup>th</sup> - 28<sup>th</sup> February 2019, University of Delhi South Campus, New Delhi. (Won Best Poster Presentation Award).

Third Best Poster Award - Sanjay Kumar Dey, Pankaj Prabhakar, Vikash Kumar Panchal, Manisha Saini, BK Thelma, CC Kartha, Subir K Maulik and Suman Kundu. (2019) "Inhibitors of dopamine-beta-hydroxylase identified by structure assisted novel therapeutic design prevented elevated systolic blood pressure and cardiac hypertrophy in rat models." International Symposium on "Structure Assisted Design on Novel Therapeutics 2019" organized by the Regional Center for Biotechnology (RCB), Faridabad, India during 12<sup>th</sup> - 16<sup>th</sup> February, 2019.

Simran Kaur, Alo Nag and Kulbhushan Sharma (2019). Peroxisome Proliferator Activated Receptor Gamma Sensitizes Non-Small Cell Lung Carcinoma to Gamma Irradiation. International Symposium on Tumor Microenvironment and Cancer Prevention & Therapeutics, 8<sup>th</sup> - 9<sup>th</sup> February, 2019, School of Life Sciences, Jawaharlal Nehru University, New Delhi. (won Best Poster Presentation Award)

Simran Kaur, Alo Nag and Kulbhushan Sharma (2018), Second best poster prize on "Peroxisome Proliferator Activated Receptor Gamma sensitizes non-small cell lung carcinoma to gamma irradiation" in the International Conference on Radiation Biology, October 4<sup>th</sup> - 6<sup>th</sup>, 2018, Mangalore.

Sanjay Kumar Dey, Pankaj Prabhakar, Manisha Saini, Toyonji Joseph, BK Thelma, Subir K Maulik and Suman Kundu. (2018) Prof. Devedra K. Agrawal Young Investigator Award. "Dopamine- $\beta$ -hydroxylase inhibitors obtained by structure based methods exhibited anti-hypertensive effect in L-NAME induced hypertensive rats" at the International Academy for Cardiovascular Research (Indian Section) annual meeting 2018, 8th-10th February, 2018, Madurai Kamaraj University, India.

Sanjay Kumar Dey, Pankaj Prabhakar, Manisha Saini, Toyonji Joseph, BK Thelma, Subir K Maulik and Suman Kundu. (2018) Best Poster Award. "Inhibitors of dopamine- $\beta$ -hydroxylase identified by structure based methods prevented elevated systolic blood pressure in L-NAME induced hypertensive rats" at the International Society for Heart Research (Indian Section) annual meeting 2018, 16<sup>th</sup> - 18<sup>th</sup> February, 2018, PGIMR Chandigarh, India.

## Publications

Arya, R., Sharma, B., Dhembala, C., Pal, R.K., Patel, A.K., Sundd, M., Ghosh, B., Makde, R.D., Kundu, S. (2019). A conformational switch from a closed apo- to an open holo-form equips the acyl carrier protein for acyl chain accommodation. *Biochimica et Biophysica Acta - Proteins and Proteomics* 1867, 163-174.

Bharti H, Singal A, Raza M, Ghosh PC and Nag A. (2019). "Ionophores as Potent Anti-malarials: A Miracle in the Making". *Current Topics in Medicinal Chemistry*. 18(23):2029-2041.

Dasauni, P., Mahapatra, M., Saxena, R. and Kundu, S. (2018). Refractive index of blood is a potential qualitative indicator of hemoglobin disorder in human. *Journal of Proteins and Proteomics*, 9(3), 2018, 159-168.

Ganguli, N., Ganguli, N., Chandra, S., Choubey, M., Sarkar, D.P., & Majumdar, S.S. (2018). A combinatorial approach for robust transgene delivery and targeted expression in mammary gland for generating biotherapeutics in milk, bypassing germline gene integration. *Applied Microbiology and Biotechnology*, 102(14), 6221-6234.

Jaisinghania, N., Dawa, S., Singh, K., Nandy, A., Menon, D., Bhandari, P.D., Khare, G., Tyagi, A.K., and Gandotra, S. (2018). Necrosis driven triglyceride synthesis primes macrophages for inflammation during Mycobacterium tuberculosis infection. *Frontiers in Immunology*. 9, 1490.

Kaur S., Nag A., Singh A.K. and Sharma K. (2018). "PPAR $\gamma$ -targeting Potential for Radioprotection". *Current Drug Targets*. 19 (15):1818-1830.

Nandi, D., Cheema, P, S., Jaiswal, N., and Nag, A. (2018). FoxM1: Repurposing an oncogene as a biomarker. *Seminars in Cancer Biology*. 52: 74-84.

Raza, M., Bharti, H., Singal, A., Nag, A., and Ghosh, P. C. (2018). "Long circulatory liposomal maduramicin inhibits the growth of *Plasmodium falciparum* blood stages in culture and completely cures murine model of experimental malaria", *Nanoscale*. 10, 13773-13791.

Yadav, U., Arya, R., Kundu S. and Sundd, M. (2018) "The 'recognition helix' of the type II Acyl Carrier Protein (ACP) utilizes a 'ubiquitin interacting motif (UIM)' like surface to bind its partners". *Biochemistry* 57 (26) 3690-3701

Nandi, D., Singal, A.Q., and Alo Nag (2019). "Drug Resistance in Cancer and Role of Nanomedicine-Based Natural Products" Invited Book chapter. *Bioactive Natural Products for the Management of Cancer: from Bench to Bedside*, Springer Nature, Singapore (*In Press*).

### **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)

### **Research Projects**

Four new projects were sanctioned in the department, which received a total grant of Rs.21232324 during 2018-19. Faculty members of the department received a total of Rs.15,42,625/- as UGC-SAP II department project during 2018-19.

DBT, "Maintenance and Operation of the Biosafety Facility (level 3), for Tuberculosis research, located at UDSC Campus" August 2018-August 2021, Dr. Garima Khare, Rs.10315132.

DBT, "Drug discovery approaches for the effective control of tuberculosis-target based virtual screening and whole cell screening of medicinal plants" September 2018- September 2021, Dr. Garima Khare, Rs.41.104 lacs.

UGC-DAE Consortium for Scientific Research, "Understanding the structure of Leishmania major Phosphotransferase (Lmj PPTase) and its interaction with cognate ACP" 1st April 2018 to 31st March 2019, Prof. Suman Kundu, Rs.2, 63, 400 (minor project)

DRDO (LSRB), "Development of Hemoglobin based artificial oxygen carrier: engineering recombinant and packaged hemoglobin", 13th June 2018 to 12th June 2021, Prof. Suman Kundu, Rs.65, 43, 392

### **Patents Filed/Granted**

#### **National Patents – 03**

Complete Indian patent entitled, "Novel anti-malarial liposomal formulation", Prahlad Chandra Ghosh, Alo Nag, Mohsin Raza, Aakriti Singal and Hina Bharti, submitted (ID 201711016131), February 15, 2018. Form 16 and examination fee was submitted for further processing on February 06, 2019.

"A Novel Anti-hypertensive Cardio-protective Composition", Suman Kundu, B.K. Thelma, G. Kovuru, Pankaj Prabhakar, Sanjay Kumar Dey, Provisional Indian Patent (ID 20181100589), February 16, 2019

"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.

#### **Seminars Organized - 21**

"Synthetic Biology : Concepts of Applications", Dr. Pawan K. Dhar, School of Biotechnology, Jawahar Lal Nehru University, New Delhi, 29<sup>th</sup> March, 2019.

"Enjoying a Three-Way Marriage: A Story of Maths, Biology and Medicine", Dr. Anurag Agrawal, IGIB, New Delhi, 22<sup>nd</sup> February 2019.

"Antimicrobial Resistance & the Prospects and Challenges of Bacteriophage Therapy", Dr. Urmi Bajpai, Department of Biomedical Science, Acharya Narendra Dev College, University of Delhi, 16<sup>th</sup> January 2019.

"Identification and characterization of hemoglobin disorders using spectroscopic, mass spectrometric and 2D-DIGE methods", Ms. Pushpanjali Dasauni, Department of Biochemistry, UDSC, 20<sup>th</sup> March 2019.

"Effect of Immunomodulation on radiation induced inflammation and damage", Ms. Simran Kaur, Department of Biochemistry, UDSC, 5<sup>th</sup> March 2019.

"Computational Studies of Drug Targets in Dopaminergic System Implicated in Neurological Disorders", Mr. Avijit Podder, Department of Biochemistry, UDSC, 1<sup>st</sup> March 2019.

"Principles of Vaccinology & Their Applications to Malaria Vaccine Development", Professor Deepak Gaur, Jawaharlal Nehru University, New Delhi, 18<sup>th</sup> December 2018.

"SWRIC : A nucleosome editing machine", Dr. Roshan Kumar Singh, University of Massachusetts Medical School, Worcester (USA), 6<sup>th</sup> December 2018.

"Structure, Function and Modulation of G Protein-Coupled Receptors", Dr. Arun Shukla, Department of Biological Sciences and Bioengineering, Indian Institute of Technology Kanpur, 13<sup>th</sup> November 2018.

"Innate Immune Mechanism of Lung Pathophysiology in Sickle Cell Disease", Dr. Prithu Sundd, University of Pittsburgh School of Medicine, Pittsburgh, 26<sup>th</sup> October 2018.

"Closing the gap: Getting vaccines to children who need them the most", Prof. Gagandeep Kang, Translational Health Science and Technology Institute (THSTI), Faridabad, 26<sup>th</sup> September 2018.

"Role of Vitamin B12 in complex diseases: Time for a reality check?", Dr. Shantanu Sengupta, Institute of Genomics and Integrative Biology (IGIB), New Delhi, 31<sup>st</sup> August 2018.

"Understanding the Mechanisms of Dendritic Cell Diversity Development and Innate Immune Responses", Dr. Prafullakumar B. Tailor, National Institute of Immunology, New Delhi, 27<sup>th</sup> July 2018.

"Solution X-ray scattering based work on Gelsolin - Basic findings to saving lives at birth", Dr. Ashish, Principal Scientist, IMTech, Chandigarh, 21<sup>st</sup> June 2018.

"Elucidating role of miR-191 in pathogenesis and liposomal delivery of anti-miR-191 for breast cancer treatment" Ms. Shivani Sharma, Department of Biochemistry, UDSC, 7<sup>th</sup> December 2018.

"Identification and Characterization of Promoters for toxin-Antitoxin *loci* of *Mycobacterium tuberculosis*", Ms. Nidhi Gupta, Department of Biochemistry, UDSC, 30<sup>th</sup> November 2018.

"Characterization of physio-chemical properties and analysis of liposomes in human biological samples using hyphenated analytical techniques", Ms. Vandana, Department of Biochemistry, UDSC, 9<sup>th</sup> November 2018.

"Delivery of anti-malarial compounds using vesicular carriers for the treatment of malaria" Mr. Mohsin Raza, Department of Biochemistry, UDSC, 6<sup>th</sup> November 2018.

"Characterization of Novel Drug Targets and Identification of Inhibitory Molecules against *Mycobacterium tuberculosis*", Ms. Swati Singh, Department of Biochemistry, UDSC, 25<sup>th</sup> July 2018.

"Strategies for selection of cognate antigen-antibody pairs for *M. tuberculosis* proteome", Ms. Vaishali Verma, Department of Biochemistry, UDSC, 11<sup>th</sup> May 2018.

"Development and Evaluation of Vaccines against Tuberculosis", Ms. Shubhita Mathur, Department of Biochemistry, UDSC, 9<sup>th</sup> May 2018.

### **Seminar/Conference Presentations**

Invited talk by Prof. Alo Nag "Targeting FOXM1 : a Promising Strategy to Combat Cancer" in the International Conference on Molecular Basis of Diseases and Therapeutics , 8-10 March, 2019, Central University of Rajasthan, Ajmer, Rajasthan.



Dr. Garima Khare : Delivered an oral presentation at the 6<sup>th</sup> World Congress on Nanomedical Sciences, ISNSCON2019 held at Vigyan Bhawan, New Delhi, 7<sup>th</sup>-9<sup>th</sup> January 2019.

Dr. Garima Khare : Delivered a CIDR-MCB lecture "Targeting the phosphopantetheinylation pathway of *Mycobacterium tuberculosis* for the identification of new anti-TB drugs" at the Department of Microbiology and Cell Biology, Indian Institute of Science, Bangalore, 30<sup>th</sup> August 2018.

Suman Kundu, Invited Speaker: "New Inhibitors of Dopamine Beta Hydroxylase to Treat Hypertension and Cardiac Hypertrophy: From Computers to Animal Models", BioEpoch 2019 – 11<sup>th</sup> Annual Conference of School of Biotechnology, Jawaharlal Nehru University, New Delhi, March 14, 2019.

Suman Kundu, Invited Speaker: "Hemoglobins form Cyto-toxic Amyloids", International Conference on Molecular Basis of Diseases and Therapeutics, School of Life Sciences, Central University of Rajasthan, Kishangarh, Rajasthan, March 8-10, 2019.

Suman Kundu, Invited Speaker: "Biochemists in Wonderland : What Lies Ahead", Chief Guest Speaker in Biosparks 2019, Department of Biochemistry, Deshbandhu College, University of Delhi, New Delhi, February 20, 2019.

Suman Kundu, Invited Speaker: "Spectroscopy as a Guide to Engineer Unprecedented Heme Stability in Hemoglobins to Facilitate Use of Artificial Blood Substitutes", National Symposium on Applied Spectroscopy: Biology and Medical Science", Department of Physics, Udai Pratap College, Varanasi, Uttar Pradesh, February 19-20, 2019.

Suman Kundu, Invited Speaker: "New Inhibitors against Dopamine Beta Hydroxylase to Treat Hypertension and Cardiac Hypertrophy: From Computers to Animal Models", International Conference of the Academy of Cardiovascular Sciences (International Academy of Cardiovascular Sciences - India Section) on Translational Research in Cardiovascular Sciences, Sri Jayadeva Institute of Cardiovascular Sciences, held at the NIMHANS Convention Centre, Bangalore, Karnataka, February 15–17, 2019.

Suman Kundu, Invited as resource person for Innovation in Science Pursuit for Inspire Research (INSPIRE) Camp, Sponsored by Department of Science and Technology (DST), in Department of Biochemistry, Daulat Ram College, University of Delhi, Delhi, Title of talk: "Story of Proteins – The Amazing Life Molecules", 19<sup>th</sup> December, 2018

Suman Kundu, Invited Speaker: "Basics of Mass Spectrometry and its Applications in Proteomics", RCB Mass Spectrometry and Proteomics Workshop, Dec 17<sup>th</sup>-Dec 20<sup>th</sup>, 2018.

Suman Kundu, Invited Speaker : "Identification of Single Mutations in Hemoglobin Variants Using Modified Sample Preparation and Digestion Method and Separation Power of LC Coupled with MALDI MS/MS", 10<sup>th</sup> Annual Meeting of Proteomics Society, India and International Conference on Proteomics for Cell Biology and Molecular Medicine, National Centre for Cell Science (NCCS), Pune, Dec 12-14, 2018.

Suman Kundu, Invited as Chief Guest Speaker "Interesting advances in Hemoglobin Research: Beyond the Text Book", Department of Biochemistry, Institute of Home Economics College, Delhi, 12<sup>th</sup> October, 2018.

Suman Kundu, Invited as Chief Guest Speaker "Interesting advances in Hemoglobin Research: Beyond the Text Book", Inauguration of the Botanical Society Fest *Tarumitra*, Department of Botany, Acharya Narendra Dev College, Delhi, 11<sup>th</sup> October, 2018.

Suman Kundu, Invited as Chief Guest Speaker "Interesting advances in Hemoglobin Research: Beyond the Text Book", Inauguration of the Zoological Society *Inheritance*, Department of Zoology, Zakir Husain Delhi College, Delhi, 17<sup>th</sup> September, 2018.

Suman Kundu, Invited Speaker: "Inhibitors of Dopamine Beta Hydroxylase as Potential Anti-Hypertensives: How far are we?", Protein Society Meeting in ICGEB, New Delhi, 25<sup>th</sup> August, 2018.

Suman Kundu, Invited as Resource Person in The Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi, for Refresher Course in Life Sciences, 17<sup>th</sup> July, 2018 to 6<sup>th</sup> August, 2018. Title of Talk : "A case study in drug discovery research : from laboratory to animal models".

Suman Kundu, Invited Speaker: "Inhibitors of Dopamine Beta Hydroxylase as Potential Anti-Hypertensives: How far are we?", Cardiovascular Diseases and Diabetes Biology Group, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, May 29, 2018.

Suman Kundu, Invited as resource person for Innovation in Science Pursuit for Inspire Research (INSPIRE) Camp, Sponsored by Department of Science and Technology (DST), in Department of Biochemistry, Shivaji College, University of Delhi, New Delhi, Title of talk: "Story of Proteins – The Amazing Life Molecules", July 20, 2018

#### **Other Inter-Institutional Collaboration**

Prof. Debi P Sarkar is collaborating with Prof. Siddhartha S. Ghosh, Dept. of Biosciences and Bioengineering, Indian Institute of Technology Guwahati, Guwahati and Prof. Siddhartha S. Jana, Dept. of Biosciences, Indian Academy for Cultivation of Sciences, Kolkata on "Targeted gene and drug delivery using Sendai virosomes"

Prof. Suman Kundu collaborating with Prof. B Dash, Abnormal Hemoglobin Research Unit, Department of Biosciences and Biotechnology, Fakir Mohan University, Balasore, Orissa on Sickle Cell Diseases.

#### **Placement Details (Number and percentage of students placed)**

10 M.Sc. students and 6 Ph.D. students (100%) opted for higher education or jobs (Ph.D., B.Ed., Post-doctorate, scientific writing etc.)

#### **Extension and Outreach Activities**

Visit by students and teachers of Biochemistry Department of Shaheed Rajguru College to the Department on 30th March, 2019. Students were oriented about the activities of the department by Faculties followed by visits to various Research Laboratories and Central Instrumentation Facility

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

Ph.D.                    06

#### **Faculty Strength:**

Permanent:        06

#### **Other Significant Information**

The department is working extensively towards renewing the CPCSEA registration for animal work in its Animal House, which is a significant task.

Prof. Suman Kundu

Invited as panelist in a Session on "Coronary Artery Disease, Hypertension and Diabetes as part of conference on "Cardiovascular Research Convergence" jointly organized by AIIMS, New Delhi and ICGEB, New Delhi, 13-14<sup>th</sup> October, 2018

Invited as member of the Area Advisory Board (AAB) for designing the academic course for Under Graduate Program in Biochemistry (H) during 2018-2019 in Amity Institute of Molecular Medicine & Stem Cell Research (AIMMSCR), Amity University, Noida (July, 2018).

Invited as external expert, Doctoral Advisory Committee (DAC-II) in CSIR-IGIB, New Delhi, July 17, 2018

Invited as outside expert on the PG Board of Studies in Biochemistry, Maharshi Dayanand University, Rohtak, 13-6-2018 to 12-6-2020.

Prof. Alo Nag

Invited as mentor by DBT in the 10<sup>th</sup> Mentorship meeting of Ramalingaswami Fellows at the Ramalingaswami Conclave 2019 held at Hyatt Hotel, Gurgaon, 29<sup>th</sup> April, 2019.

Invited as Judge by organizers of San Antonio Breast Cancer Symposium held at Radisson Blu Plaza, Delhi on 6<sup>th</sup> April, 2019.

Invited as Judge by organizers of NCR-Cluster Young Emerging Scientist (YES) Symposium, held at National Institute of Immunology, New Delhi on 28<sup>th</sup> February 2019.

Students / Post-docs – Awards/Honors/Distinctions

Chetna Dhembla selected as one of 20 international students for an International Workshop: 3rd Advanced School in Genetic Manipulation of Parasitic Protozoa: Recent advances in CRISPR-CAS9 genome editing, March 11th- 15th, 2019, Indian Institute of Chemical Biology (IICB) Kolkata, India. (Her abstract on “Insights into structure and function of Leishmania major 4’phosphopantetheinyl transferase to identify antileishmanial compounds to combat Leishmaniasis”)

Pradeep Singh Cheema, 2019, Selected for Oral Presentation. A promising anti-cancer therapy through small molecule mediated inhibition of FoxM1 in cervical carcinoma. International Symposium on Tumor Microenvironment and Cancer Prevention & Therapeutics, 08-09 February, 2019, School of Life Sciences, Jawaharlal Nehru University, New Delhi.

Yama Atri, 2019, Local / University, Best Banner Award. 8th National Science Day Symposium, 27-28 February 2019, University of Delhi South Campus, New Delhi.

Manisha Saini, CC Kartha Travel Award at International Conference on Translational Research in Cardiovascular Sciences; Annual Conference of International Academy of Cardiovascular Sciences (India Section), 15th-17th February 2019, Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bangalore.

Gaurav Kumar, CC Kartha Travel Award at International Conference on Translational Research in Cardiovascular Sciences; Annual Conference of International Academy of Cardiovascular Sciences (India Section), 15th-17th February 2019, Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bangalore.

Best Presentation Award for Chetna Dhembla in Annual Science Day Celebrations, CRS Research Scholars' Workshop, Jan 8th- 9th, 2019, UGC-DAE Consortium for Scientific Research, DAVV University, Indore, India for Oral Presentation on “A conformational switch from a closed apo- to holo- form equips the acyl carrier protein for acyl chain accommodation”, Chetna Dhembla, Richa Arya, Bhaskar Sharma, Ravi Kant Pal, Monica Sundd, Biplab Ghosh, Ravindra D. Makde and Suman Kundu.

Gaurav Kumar, 2018, National, IInd Best Oral Presentation (Basic Science). Cytochrome b5 reductase3 as a non-conventional therapeutic target to counter hypertension. Cardiovascular Research Convergence - 2018 (CRC-2018), 13th-14th October 2018, ICGEB & AIIMS, New Delhi

Manisha Saini, 2018, National, IIIrd Best Oral Presentation (Basic Science). Screening of antihypertensive activity of GK4 compound in SHR; an acute and chronic study. Cardiovascular Research Convergence - 2018 (CRC-2018), 13th-14th October 2018, ICGEB & AIIMS, New Delhi

Sanjay Kumar Dey (2018) ASBMB Post-doctoral Travel Award. “Dopamine-β-monooxygenase inhibitors obtained by structure based methods exhibited antihypertensive effect in L-NAME induced hypertensive rats” at the ‘Experimental Biology 2018’ organised by the American Society for Biochemistry and Molecular Biology, 21st -25th April, 2018, San Diego, USA.

Sanjay Kumar Dey (2018) CSIR International Travel Award. “Dopamine- $\beta$ -monoxygenase inhibitors obtained by structure based methods exhibited antihypertensive effect in L-NAME induced hypertensive rats” at the ‘Experimental Biology 2018 meeting’, 21<sup>st</sup> -25<sup>th</sup> April, 2018, San Diego, USA.

Sanjay Kumar Dey (2018) Immunology Foundation Bursary Grant. “Dopamine- $\beta$ -monoxygenase inhibitors obtained by structure based methods exhibited antihypertensive effect in L-NAME induced hypertensive rats” at the ‘Experimental Biology 2018 meeting’, 21<sup>st</sup> - 25<sup>th</sup> April, 2018, San Diego, USA.

#### Students / Post-docs – Seminar / Conference Presentations

Aakriti Singal, Hina Bharti, Mohsin Raza, Prahlad C. Ghosh and Alo Nag. 2019. Exploring the Biophysical and Biochemical Properties of Plasmodial SUMO Conjugating Enzyme, Pfubc9. International Conference on Molecular Basis of Diseases and Therapeutics, 8-10<sup>th</sup> March, 2019, Central University of Rajasthan, Ajmer, Rajasthan (Poster Presentation).

Deeptashree Nandi, Pradeep Singh Cheema and Alo Nag, 2019. Unraveling the implications of FOXM1 in Artemisinin mediated tumor suppression of hepatocellular carcinoma. International Conference on Molecular Basis of Diseases and Therapeutics, 8-10<sup>th</sup> March, 2019, Central University of Rajasthan, Ajmer, Rajasthan (Poster Presentation).

Yama Atri, Hina Bharti and Alo Nag, 2019. Cullin4A, E3 ubiquitin ligase and cervical cancer: New Hat, Old Tricks. International Conference on Molecular Basis of Diseases and Therapeutics, 8-10<sup>th</sup> March, 2019, Central University of Rajasthan, Ajmer, Rajasthan (Poster Presentation).

Deeptashree Nandi, Pradeep Singh Cheema, and Alo Nag, 2019. Unraveling the implications of FOXM1 in Artemisinin mediated tumor suppression of hepatocellular carcinoma. 8th National Science Day Symposium, 27-28<sup>th</sup> February 2019, University of Delhi South Campus, New Delhi (Poster Presentation).

Hina Bharti, Aakriti Singal, Mohsin Raza, Prahlad C. Ghosh and Alo Nag., 2019. Structure-function correlation and Biochemical characterization of an imperative Plasmodium falciparum Deubiquitinase: PfUHL3. 8th National Science Day Symposium, 27-28 February 2019, University of Delhi South Campus, New Delhi (Poster Presentation).

Aakriti Singal, Hina Bharti, Mohsin Raza, Prahlad C. Ghosh and Alo Nag. 2019. Exploring the Biophysical and Biochemical Properties of Plasmodial SUMO Conjugating Enzyme, Pfubc9. 8th National Science Day Symposium, 27-28 February 2019, University of Delhi South Campus, New Delhi (Poster Presentation).

Hina Bharti, Aakriti Singal, Mohsin Raza, Prahlad C. Ghosh and Alo Nag. 2019, Structure-function correlation and Biochemical characterization of an imperative Plasmodium falciparum Deubiquitinase: PfUHL3. 1<sup>st</sup> International Conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019) 25-26 February, 2019, University of Delhi North Campus, New Delhi (Poster Presentation).

Aakriti Singal, Hina Bharti, Mohsin Raza, Prahlad C. Ghosh and Alo Nag. 2019. Exploring the Biophysical and Biochemical Properties of Plasmodial SUMO Conjugating Enzyme, Pfubc9. 1<sup>st</sup> International Conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019) 25-26 February, 2019, University of Delhi North Campus, New Delhi (Poster Presentation).

Yama Atri and Alo Nag, 2019. Ubiquitin ligase, Cullin4A with an impact in cervical carcinogenesis. International Symposium on Tumor Microenvironment and Cancer Prevention & Therapeutics, 08-09 February, 2019, School of Life Sciences, Jawaharlal Nehru University, New Delhi (Poster Presentation).

Pradeep Singh Cheema, Deeptashree Nandi, Neha Jaiswal, Sanjay Dey, Suman Kundu and Alo Nag, 2019. A promising anti-cancer therapy through small molecule mediated inhibition of FoxM1 in cervical carcinoma. International Symposium on Tumor Microenvironment and Cancer Prevention & Therapeutics, 08-09 February, 2019, School of Life Sciences, Jawaharlal Nehru University, New Delhi. (Poster Presentation; Selected for Oral Presentation).

Chetna Dhembla, Richa Arya, Bhaskar Sharma, Ravi Kant Pal, Monica Sundd, Biplab Ghosh, Ravindra D. Makde and Suman Kundu (2019), “ A Conformational switch from a closed apo- to holo- form equips the acyl carrier protein for fatty acid synthesis”, 43<sup>rd</sup> Indian Biophysical Society Meeting Molecules to Systems 2019, March 15<sup>th</sup>- 17<sup>th</sup>, 2019, Indian Institute of Science Education and Research (IISER) Kolkata, India. (Poster presentation)

Chetna Dhembla, Monica Sundd, and Suman Kundu (2019), “ Insights into structure and function of *Leishmania major* 4<sup>’</sup>phosphopantetheinyl transferase to identify antileishmanial compounds to combat Leishmaniasis ”, 3<sup>rd</sup> Advanced School in Genetic Manipulation of Parasitic Protozoa: Recent advances in CRISPR-CAS9 genome editing, March 11<sup>th</sup>- 15<sup>th</sup>, 2019, Indian Institute of Chemical Biology (IICB) Kolkata, India. (Poster presentation)

Nidhi Mittal, Mohd. Asim Khan, Shruti Bhatt, Sanjeev Kumar Yadav and Suman Kundu (2019), "Platform to optimize requisite features for production of hemoglobin based blood substitute", 43<sup>rd</sup> Annual Meeting of Indian Biophysical Society on Molecules to System, from 15<sup>th</sup>-17<sup>th</sup> March 2019, at IISER Kolkata. (Poster presentation)

Sanjeev Kumar Yadav, Mohd. Asim Khan and Suman Kundu\* “Stability and regulation of Ligand Binding in novel hemoglobin” 43<sup>rd</sup> Annual Meeting of Indian Biophysical Society on emerging trends in biophysics, from March 15<sup>th</sup>-17<sup>th</sup>, 2019, at IISER Kolkata (Poster presentation)

Mohd. Asim Khan Nidhi Mittal, Sanjeev Kumar Yadav, Shruti Bhatt and Suman Kundu\* “Enhancing Heme retention in Recombinant Human hemoglobin to Design Hemoglobin Based Artificial Oxygen Carrier– Potential Blood Substitute” 43<sup>rd</sup> Annual Meeting of Indian Biophysical Society on Molecules to System from March 15<sup>th</sup>-17<sup>th</sup>, 2019, at IISER Kolkata (Poster presentation)

Chetna Dhembla, Richa Arya, Bhaskar Sharma, Ravi Kant Pal, Monica Sundd, Biplab Ghosh, Ravindra D. Makde and Suman Kundu (2019), “Conformational rearrangement from a closed apo- to holo- form equips the acyl carrier protein for fatty acid synthesis” ,National Science Day Symposium 2019, Feb 27<sup>th</sup>- 28<sup>th</sup>, 2019, University of Delhi, South Campus, New Delhi, India. (Poster presentation)

Manisha Saini, Sanjay Kumar Dey, Vikas Kumar, Pankaj Prabhakar, C.C Kartha, Suman Kundu, (2019) “Screening of anti-hypertensive effects of compounds: From *in silico* to *in vivo*”, from 15<sup>th</sup>-17<sup>th</sup> February 2019, at Annual conference of International Academy of Cardiovascular Sciences (*India Section*), Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bangalore (Poster Presentation).

Chetna Dhembla, Richa Arya, Bhaskar Sharma, Ravi Kant Pal, Ashok Patel, Monica Sundd, Biplab Ghosh, Ravindra D. Makde and Suman Kundu (2018) “A conformational switch from a closed apo- to holo- form equips the acyl carrier protein for acyl chain accommodation” International Conference on Innovations for the Elimination and Control of Visceral Leishmaniasis (IEC - VL), Nov 28<sup>th</sup>- 30<sup>th</sup>, 2018, Institute of Molecular Medicine, Jamia Hamdard, New Delhi, at Holiday Inn, Aerocity, New Delhi, India.(Poster presentation)

Mohd. Asim Khan, Manish Shandilya, Sanjeev Kumar Yadav and Suman Kundu\* “Unraveling novel classes of hemoglobins for further insight into its folding and stability” Hands-on training workshop on crystallization in lipid bilayer" at ICGEB, New Delhi, 29-30<sup>th</sup> May 2018. (Poster presentation)

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## BIOPHYSICS

### Major Activities and Achievements

Prof. Subhendu Ghosh is working on Membrane Biophysics, Ion Channels and Neuro-biophysics. The experiments involve electro-physiological methods, e.g. single-channel recording, patch-clamp. A special emphasis is 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 and evolution of antibiotic resistance in microbes.

### **Publications**

Kaushik V, Verma VV, Goel M. (2018) Functional divergence and comparative in-silico study of Cas4 proteins of DUF83 class. *J Mol Recognit.* 31(5):e2694.

Rani S, A Sharma, Goel M. (2018). Navigating the structure-function-evolutionary relationship of CsaA chaperone in archaea. *Critical Reviews in Microbiology*, 44(3):274-289.

Sharma, D., Garg, A., Kumar, M., Khan, A.U. (2019). Proteome profiling of carbapenem-resistant *K. pneumoniae* clinical isolate (NDM-4): Exploring the mechanism of resistance and potential drug targets. *J Proteomics*. 200:102-110.

Singhal, N., Pandey, D., Kumar, M. and Viridi, J. S. (2019). Molecular analysis of ampR and ampD to understand variability in inducible expression of “BlaB-like” cephalosporinase in *Yersinia enterocolitica* biotype 1A. *Gene*. 704:25-30.

Singhal, N., Pandey, D., Singh, N.S., Kumar, M. and Viridi, J. S. (2019). ampD homologs in biotypes of *Yersinia enterocolitica*: Implications in regulation of chromosomal AmpC-type cephalosporinases. *Infection, Genetics and Evolution*. 69:211-215.

Singhal, N., Pandey, D., Kumar, M. and Viridi, J. S. (2019). Molecular Characteristics of “BlaB-like” Chromosomal Inducible Cephalosporinase of *Yersinia enterocolitica* Biotype 1A Strains. *Microbial Drug Resistance*.

Kumari, B., Kumar, R. and Kumar, M. (2019). Identifying residues that determine palmitoylation using association rule mining. *Bioinformatics*.

Kumari, B., Kumar, R. and Kumar, M. (2018). Comparative functional analysis of proteins containing low-complexity predicted amyloid regions. *Peer J*. 6:e5823.

Garg A, Kumari B, Singhal N, Kumar M. (2018) Using molecular-mimicry-inducing pathways of pathogens as novel drug targets. *Drug Discovery Today*. 30256-3.

Srivastava, A.\*, Kumar, R.\*, and Kumar, M. (2018) BlaPred: predicting and classifying beta-lactamase using a 3-tier prediction system via Chou's general PseAAC. *Journal of Theoretical Biology*. 457:29-36.

Kumari, B., Kumar, R. and Kumar, M. (2018). Prediction of rare palmitoylation events in proteins. *Journal of Computational Biology*. Sep;25(9):997-1008. doi: 10.1089/cmb.2017.0069.

Garg, A., Kumari, B., and Kumar, M. Emerging Role of HSP70 in Human Diseases. Heat Shock Proteins, Vol. 14, Alexander A. A. Asea and Punit Kaur (Eds): *HSP70 in Human Diseases and Disorders*.

### **Research Projects**

DBT funded: *Structure-Function studies on a membrane protein from Chikungunya Virus* March, 2019-March, 2022, INR 34, 12, 400,

### **Seminars Organized**

Prof. Shandar Ahmed, School of Computational & Integrative Sciences, JNU; *Data Driven Predictive Models in Bioinformatics*. 13<sup>th</sup> August, 2018.

Dr. Daniel Ungar, University of York, UK, *Linking Golgi organization and glycan processing to help future drug development*. 5<sup>th</sup> March, 2019.

Department organizes colloquium once in 15 days where students, teachers & guests deliver talks.

### **Conferences organized:**

One Day Symposium on “Self-Organization in Biology” 16<sup>th</sup> March, 2019. Speakers: Jonathan Ashmore, UK, Pabitra Pal Choudhuri, ISI Kolkata, Sanjay Jain, DU, Jyotirmoy Banerjee, AIIMS

Workshop on Mathematical Biology, 23<sup>rd</sup> April, 2018.

### **Seminar/Conference Presentations**

“Phosphorylation of Ion Channels and their Plausible Role in Mitochondria Mediated Neuronal Cell Death” by Prof. Subhnedu Ghosh at *Recent advancements in Neurophysiology and Neuropharmacology-2018 (RANN-2018)*, GLA University, Mathura, 2-3 November, 2018.

“Collective Behavior of Ion Channels: From Physics to Biology” by Prof. Subhendu Ghosh at *National Symposium on Applied Spectroscopy: Biology and Medical Science*, Udai Pratap College, Varanasi, 19-20 February, 2019.

“Application of Differential Equations in Brain Science” by Prof. Subhendu Ghosh at *Science Academies’ Lecture Workshop on Differential Equations & Applications*, S.P. Mookerjee College, DU, 11-13 October, 2018.

Dr. Manish Kumar has participated in 11th Young Investigator Meet (YIM2019), Guwahati (06-08 March 2019).

Dr. Manish Kumar has delivered a talk titled ‘Combating infectious disease by computational biology on Jan 8, 2019 in 6th World Congress on NanoMedical Sciences, Vigyan Bhawan, New Delhi (7-10 Jan, 2019).

Dr. Manish Kumar has delivered a talk titled ‘Data Driven Approach for Health Research’ in National Workshop on Computation for Biomedicine and Healthcare (Dec 10-14, 2018) at Indraprastha Institute of Information Technology, New Delhi Dec 12, 2018.

Dr. Manish Kumar has delivered a talk titled ‘New Trends in Data Curation and Databases’ in National Workshop on Data Curation and Database Development (Dec 11-12, 2018) at National Institute of Plant Genome Research, New Delhi on Dec 11, 2018.

Dr. Manish Kumar has delivered a talk titled ‘Role of manual and automatic curation in modern biological research in National Symposium on Database Development and Biocuration (April 6-7, 2018) at University of Delhi South Campus on April 6, 2018.

### **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.

### **M.Phil./ Ph. D. Awarded**

Ph.D. awarded: 1 ; Ms. Abhishikha Srivastava

### **Faculty Strength**

Permanent: 3

### **Other Significant Information**

Prof. Jonathan Ashmore, Professor, Department of Physiology & Neuroscience, Ear Institute, University College of London, visited the department from 14<sup>th</sup> to 20<sup>th</sup> March, 2019 as part of Yusuf Hameid-Royal Society of London award.

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## ELECTRONIC SCIENCE

### 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 UGC, CSIR, DRDO etc. Ms. Niharika Kohli was selected for the Shastri Indo-Canadian fellowship. Apart from this, the Department organizes seminars, lectures and talks on a regular basis. This year **IEEE EDS Delhi Chapter** and Department of Electronics Science jointly organized the **Visitors' program** at University of Delhi South Campus on March 31, 2019. Apart from this Department also organized Annual Educational Tour to Defence Electronics Application Laboratory (DEAL) Dehradun in March 2019.

### Publications (Total number) : 64

Chetna, Kumar, S., Garg, A., Chowdhuri, A., Jain, A., Kapoor, A. (2019). A novel method of electrochemically growing ZnO nanorods on graphene oxide as substrate for gas sensing applications. *Materials Research Express*, 6(7).

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*, 45(2 A), 1900 -1908.

Kumar, A., Kumar, R., Kumar, M., Bhatt, G., Khanna, M., Kapoor, A. (2018). Spectral Interrogation of ZnO Thin Film for Lossy Mode Resonance Sensors. *Advanced Science Letters*. 24(2), 796-801.

Singh, Y. P., Jain, A., Kapoor, A. (2018). Aluminum Nanostructures Enhanced Optical Absorption in Thinfilm Silicon Solar Cells. *Recent Innovations in Chemical Engineering*. 11(3), 179-184.

Madaan, D., Kapoor, A., Sharma, V. K. (2018). Ultrahigh Sensitivity Plasmonic Refractive-Index Sensor for Aqueous Environment. *IEEE Photonics Letters*. 30(2), 149-152.

N. Dhingra, J. Anand, G. J. Saxena, and E. K. Sharma (2018), Design of the coaxial optical fiber for pulse repetition rate multiplication by Talbot effect, *Opt. Fiber Technol.*, ISSN: 1068-5200, 46, 248-257, DOI: <https://doi.org/10.1016/j.yofte.2018.10.017>. (Impact factor: 1.350).

N. Soni, N. Singh, A. Kapoor, E. K. Sharma (2018), Low-Resolution Image Recognition Using Cloud Hopfield Neural Network, *Progress in Advanced Computing and Intelligent Engineering, Advances in Intelligent Systems and Computing*, eISBN: 978-981-10-6872-0, 563, 39-46, DOI: [https://doi.org/10.1007/978-981-10-6872-0\\_4](https://doi.org/10.1007/978-981-10-6872-0_4).

Kumari, V. Kumar, A. Saxena, M. and Gupta, M. (2018). Study of Gaussian Doped Double Gate Junctionless (GD-DG-JL) Transistor Including Source Drain Depletion Length: Model for Sub-threshold Behaviour. *Superlattices and Microstructures*, 113, 57-70.

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### International Conferences

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J. P. Nath, N. Dhingra, G. J. Saxena, and E. K. Sharma (2018), Compact Mode Division Multiplexed On-Chip Interconnect based on Evanescently Coupled SOI Waveguides, *International Conference on Fiber Optics and Photonics (Photonics-2018)*, December 12-15, 2018, IIT Delhi, India.

- J. P. Nath, N. Dhingra, G. J. Saxena, and E. K. Sharma (2019), Design of a Compact Silicon based Co-directional Coupler for Mode Division Multiplexing, *IONS Manipal 2019*, January 11-14, 2019, MAHE, Manipal, India.
- N. Dhingra, J. C. Song, G. J. Saxena, E. K. Sharma, B. M. A. Rahman (2018), Germanium Telluride Phase Change Material based 1×2 Electro-Optic Switch, *International Workshop on Optical Wave & Waveguide Theory and Numerical Modelling (OWTNM-2018)*, Bad Sassendorf, Germany, 13-14 April 2018.
- N. Dhingra, J. C. Song, G. J. Saxena, E. K. Sharma, and B. M. A. Rahman (2018), Germanium Telluride Based Compact Electro-Optic Switch with High Extinction Ratio, *International Conference on Fiber Optics and Photonics (Photonics-2018)*, December 12-15, 2018, IIT Delhi, India.
- N. Soni, E. K. Sharma, N. Singh, A. Kapoor (2018), Success of Optical based Networks for Deep Learning, Computing for Sustainable Global Development. *5th IEEE International Conference organized by Institute of Computer Applications and Management (BVICAM)*, PaschimVihar, Rohtak Road, New Delhi, 2018.
- P. Hejib, E. K. Sharma (2019), Study of All-Optical Wavelength Converter based on Four Wave Mixing in a Semiconductor Optical Amplifier, *Optics & Photonics: Theory & Computational Techniques (OPTCT-2019)*, 23-24 March 2019, IIT Delhi, India.
- Singh, P. Kumari, V. Saxena M. and Gupta M. (2018). Threshold Voltage Investigation of Recessed Dual-Gate MISHEMT: Simulation Study, (paper ID- 151), 22nd International Symposium on VLSI Design and Test (VDAT2018), Thiagarajar College of Engineering, Madurai, Tamilnadu, India, 28th June- 30<sup>th</sup> June.
- Neha., Kumari. V. Gupta M. and Saxena, M. (2018). Temperature Based Analysis of 3-Step Field Plate AlGaIn/GaN HEMT using Numerical Simulation. *4<sup>th</sup> International Conference on Nanotechnology-Application Advances and Innovations, Pune, India, 25<sup>th</sup>-26<sup>th</sup> October.*
- Monika, Narang, R. Saxena M. & Gupta M., (2018) Comparative study of InGaIn and InGaAs Dopingless TFET with different Gate Engineering Techniques. *4<sup>th</sup> International Conference on Nanotechnology-Application Advances and Innovations, Pune, India, 25<sup>th</sup>-26<sup>th</sup> October.*
- Singh, P. Kumari, V. Saxena M. and Gupta M. (2018). Evaluation of Dual-Gate MISHEMT with Sapphire, SiC and Silicon substrate. *4<sup>th</sup> International Conference on Nanotechnology-Application Advances and Innovations, Pune, India, 25<sup>th</sup>-26<sup>th</sup> October.*
- Neha, Kumari, V. Gupta M. and Saxena, M. (2018). Breakdown Voltage Analysis of Different Field Plate AlGaIn/GaN HEMTs: TCAD Based Assessment, *IEEE Electron Device Kolkata Conference (2018 EDKCON)*, Kolkata, India 24<sup>th</sup>-25<sup>th</sup> November.
- Kumari, V. Kumar, A. Gupta M. and Saxena, M. (2018). Sub-threshold Drain Current Model of Shell-Core Architecture Double Gate Junction Less Transistor. *IEEE Electron Device Kolkata Conference (2018 EDKCON)* Kolkata, India 24<sup>th</sup>-25<sup>th</sup> November.
- Khushwant, Kumari, V. Gupta M. and Saxena, M. (2018). Investigation of Field Plate Misalignment on Electrical Characteristics of AlGaIn/ GaN HEMT. *5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering-UPCON-2018*, Banaras, Uttar Pradesh, India 2<sup>nd</sup> – 4<sup>th</sup> Nov.
- Kumari, V. Saxena M. and Gupta, M. (2018). RingFET Architecture for High Frequency Applications: TCAD Based Assessment. *IEEE Electron Device Kolkata Conference (2018 EDKCON)* Kolkata, India 24<sup>th</sup>-25<sup>th</sup> November.
- Upasana, Kasundra, H. Gupta M. and Saxena, M. (2018). Impact of Compound Semiconductor Material in Drain Region Extended Tunnel Transistor for SoC Applications. *IEEE Electron Device Kolkata Conference (2018 EDKCON)* Kolkata, India 24<sup>th</sup>-25<sup>th</sup> November, 2018.

Pandey P., and Kaur H., (2018) Surface Potential Model for Ferroelectric Nanowire Field Effect Transistor with NiSi<sub>2</sub> Source/Drain", IEEE International Conference on Emerging Electronics (ICEE) 2018 held at Royal Orchid Resort and Convention Centre, Bangalore, India, 16<sup>th</sup>-19<sup>th</sup> December.

Bansal M., Kaur H., (2018) Ferroelectric GeSn on Insulator FET: Device and Circuit Analysis for Steep Switching Applications. IEEE International Conference on Emerging Electronics (ICEE) 2018 held at Royal Orchid Resort and Convention Centre, Bangalore, India, 16<sup>th</sup>-19<sup>th</sup> December.

Pandey P., and Kaur H., (2018). Impact of SBT Ferroelectric layer on Reconfigurable FETs for Steep Switching Characteristics and Improved Performance. IEEE 4th International Conference for Convergence in Technology (I2CT), SDMIT Mangalore, 27-28 October.

Pandey P., and Kaur H., (2018). Drain Current Model of Reconfigurable Ferroelectric Field Effect Transistor (R-Fe-FET). IEEE 4th International Conference for Convergence in Technology (I2CT), SDMIT Mangalore, 27-28 October.

Jagoi S., Pawar D., Kaur H., (2018). Efficacy of Non-Uniformly Doped and Multi-layered Gate Dielectric Designs in Improving Device Performance of Elliptical MOSFETs. Second IEEE International Conference on Microelectronics and Telecommunication Engineering 2016 (ICMETE-2018) held at SRM University, Delhi-NCR Campus, Modinagar, Ghaziabad during 20-21 September.

Bansal M. and Kaur H., (2018). Impact of Ferroelectric Material Properties on Device Characteristics of Ferroelectric Ge<sub>0.97</sub>Sn<sub>0.03</sub> Double Gate FET (FEGeSnDGFET). IEEE International Microwave and RF Conference (IMaRC) 2018 held at Bharati Hotel Novotel, Kolkata, India, 28th-30th November.

Mehta H. and Kaur H., (2018). Performance Assessment of Symmetric Double Gate Negative Capacitance Junctionless Transistor with High-k Spacer at Elevated Temperatures. NANOCON-2018 International Conference on Nanotechnology held at, Bharati Vidyapeeth University, Pune, Maharashtra, from October 25-26.

Bansal M. and Kaur H., (2018). Superior Device Performance and Reliability of Germanium Ferroelectric Double Gate FET (GeFeDGFET) at High Temperatures. NANOCON 2018 held at Bharati Vidyapeeth University, Pune-Satara Road Campus, Pune, India, 25<sup>th</sup>-26<sup>th</sup> October.

Bansal M. and Kaur H., (2018). Ferroelectric-Insulator-Germanium Double Gate (F-I-GeDG) FET with steep switching characteristics and improved current drivability. IEEE International Conference on Computing, Power and Communication Technologies 2018 (GUCON) held at Radisson Blu Hotel, Greater Noida, Uttar Pradesh, India, 28th-29th September.

Bansal M. and Kaur H., (2018). Improvement in switching characteristics of Ferroelectric-Insulator-Germanium Double Gate (F-I-GeDG) FET for ultra-low power applications. IEEE International Conference on Computing, Power and Communication Technologies 2018 (GUCON) held at Radisson Blu Hotel, Greater Noida, Uttar Pradesh, India, 28th-29th September.

Mehta H. and Kaur H., (2018). Impact of Ferroelectric HfO<sub>2</sub> and Non-Uniform Doping on Nanoscale Planar SOI Junctionless Transistor. GUCON-2018 IEEE International Conference on Computer, Power and Communication Technologies, held at Radisson Blu Hotel, Greater Noida, Uttar Pradesh, from September 28-29.

Mehta H. and Kaur H., (2018). Double Gate Graded Channel Negative Capacitance FET (DGGCNCNFET): Performance Assessment for Low Power Digital/Analog Applications. GUCON-2018 IEEE International Conference on Computer, Power and Communication Technologies, held at Radisson Blu Hotel, Greater Noida, Uttar Pradesh, from September 28-29.

Bansal M. and Kaur H., (2018). Negative Capacitance Germanium-Double Gate FET- A novel device concept for ultra-low voltage/low power applications. International Conference on Control, Communication and Computing 2018 (IC4) held at College Of Engineering, Trivandrum, Kerala, India, 5<sup>th</sup>-7<sup>th</sup> July.

Patel, K, Birwal, A, Singh, P. (2018). Uncertainty in Electric field strength received by CPW-fed antennas using Spectrum Analyzer for RF Energy Harvesting, National Conference On Electrical & Electronics Measurements (NCEEM2018), CSIR- National Physical Laboratory, New Delhi, 19-10 Sept 2018.

Patel, K, (2019). Low-power generation using Natural Resources-Portable power devices, 8th National Science Day Symposium, University of Delhi South Campus, New Delhi, 27-28 Feb 2019.

Singh, J., Nirwal, V., S., Prasad, N., Peta, K., R., and Bhatnagar, P., K. (2018) Improvement in Dark Electrical Parameters of P3Ht:PCBM Composite by Incorporation of Multilayer Graphene for Its Photovoltaic Applications. *IUMRS-ICEM*, August 19 – 24, DCC, Daejeon, South Korea.

Gautam, K., Singh, I., Bhatnagar, P.K., Peta, K. R. (2018) Growth Challenges for ZnO Nanorods in Hydrothermal Method and their Applications in Optoelectronics. *IUMRS-ICEM*, August 19 – 24, DCC, Daejeon, South Korea.

Singh, J., Prasad, N., Bhatnagar,C., Peta,K.R., Bhatnagar, P.K. (2018). Systematic studies on incorporation of graphene in P3HT based organic photovoltaic structures. *Advances in Material Sciences & IOT for Smart Environmental Monitoring and Sustainability*, Faridabad, India.

Gautam, K., Singh, I., Bhatnagar, P. K., Peta, K.R. (2018). Solution Based Growth Strategies for Different ZnO Nanostructures. *AMSISEMS*. Lingaya's Vidyapeeth, Jasana road, Faridabad, India.

Birwal. A, Singh. S, and Kanajia. B.K (2019), "Smart Compact Folded Microstrip Antenna for GSM, LTE and WLAN Applications" in Springer International Conference on Smart IoT Systems: Innovations in Computing (SSIC-2019), 18-22 Jan 2019, Jaipur.

Birwal. A, Singh. S, and Kanajia. B.K (2018), "CPW-fed broadband slot antenna for GNSS and Wi-Fi applications" in IEEE Indian conference on Antenna and Propagation (InCAP), 16-19 Dec, 2018. Hyderabad.

Birwal, Amit. (2018). Challenges for BRICS Nations in Geospatial World, National Seminar, Century of Asians: Role and Impact of Asian Countries. UPSA, UGC-HRDC, Kumaun University, Nainital, 31-May-2018 to 01-June-2018.

## Journal

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*)

## Research Projects

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 Rs. 2500000

DRDO (SSPL) funded project entitled "*Device Simulation for Thermal management of High power GaN HEMT*". Amount: Rs. 2302000 Lacs

## Seminars Organized : 01

One day Seminar on "*TNL Atomistic tool for New Era Semiconductor Process and Device Technologies*" by Dr. Praveen Saxena, CEO & CTO, Tech Next Lab Private Limited, Lucknow on, Saturday, 6th April, 2019 at Room No. 115, Arts Faculty, University of Delhi South Campus, New Delhi.

## Seminar/Conference Presentations

### International

Prof. Enakshi K. Sharma - Conference presentation - N. Dhingra, J. C. Song, G. J. Saxena, E. K. Sharma, B. M. A. Rahman (2018), Germanium Telluride Phase Change Material based 1x2 Electro-Optic Switch,

*International Workshop on Optical Wave & Waveguide Theory and Numerical Modelling (OWTNM-2018)*, Bad Sassendorf, Germany, 13-14 April 2018.

Prof. Mridula Gupta - Invited talk on “TCAD Based Investigation of Gaussian Doped Double Gate Junctionless (GD-DG-JL) Transistor” at Barcelona, Castelldefels, Spain, during 20<sup>th</sup> - 22<sup>nd</sup> June 2018 in Micdat-2018.

Prof. Mridula Gupta - Member of IEEE-WIE Networking and Panel Discussion at Department of Electronics and Communication Engineering, Amity University Noida, on 7th March 2019.

Dr. Harsupreet Kaur - Conference presentation - Jagoi S., Pawar D., Kaur H., (2018). Efficacy of Non-Uniformly Doped and Multi-layered Gate Dielectric Designs in Improving Device Performance of Elliptical MOSFETs. Second IEEE International Conference on Microelectronics and Telecommunication Engineering 2016 (ICMETE-2018) held at SRM University, Delhi-NCR Campus, Modinagar, Ghaziabad during 20-21 September.

Dr. P. Koteswara Rao - Conference presentation Singh - J., Nirwal, V., S., Prasad, N., Peta, K., R., and Bhatnagar, P., K. (2018) Improvement in Dark Electrical Parameters of P3Ht:PCBM Composite by Incorporation of Multilayer Graphene for Its Photovoltaic Applications. *IUMRS-ICEM*, August 19<sup>th</sup> – 24<sup>th</sup>, DCC, Daejeon, South Korea.

Dr. P. Koteswara Rao - Conference presentation - Gautam, K., Singh, I., Bhatnagar, P.K., Peta, K. R. (2018) Growth Challenges for ZnO Nanorods in Hydrothermal Method and their Applications in Optoelectronics. *IUMRS-ICEM*, August 19<sup>th</sup> – 24<sup>th</sup>, DCC, Daejeon, South Korea.

Dr. Kamlesh Patel - Conference presentation - Patel, K, Birwal, A, Singh, P. (2018). Uncertainty in Electric field strength received by CPW-fed antennas using Spectrum Analyzer for RF Energy Harvesting, National Conference On Electrical & Electronics Measurements (NCEEM2018), CSIR- National Physical Laboratory, New Delhi, 19<sup>th</sup>-20<sup>th</sup> Sept 2018.

Amit Birwal - Conference presentation - Birwal. A, Singh. S, and Kanajia. B.K (2019), “Smart Compact Folded Microstrip Antenna for GSM, LTE and WLAN Applications” in Springer International Conference on Smart IoT Systems: Innovations in Computing (SSIC-2019), 18<sup>th</sup> - 22<sup>nd</sup> Jan 2019, Jaipur.

Amit Birwal - Conference presentation - Birwal. A, Singh. S, and Kanajia. B.K (2018), “CPW-fed broadband slot antenna for GNSS and Wi-Fi applications” in IEEE Indian conference on Antenna and Propagation (InCAP), 16<sup>th</sup> - 19<sup>th</sup> Dec, 2018. Hyderabad.

Amit Birwal - Conference presentation - Birwal, Amit. (2018). Challenges for BRICS Nations in Geospatial World, National Seminar, Century of Asians: Role and Impact of Asian Countries. UPSA, UGC-HRDC, Kumaun University, Nainital, 31<sup>st</sup> May – 1<sup>st</sup> June 2018.

## **National**

Prof. Mridula Gupta - Invited talk on ‘Satellite Communication’ at Acharya Narendra Dev College, on 31st January 2019.

Prof. Mridula Gupta - Invited talk on ‘Advancement in Semiconductor Device Technology: Modeling and Simulation’ at Maharaja Agrasen Institute of Technology, IP University on 4th April, 2019.

Dr. Harsupreet Kaur - Invited talk on "Emerging Nanoelectronic Devices" at Bhaskaracharya College of Applied Sciences, University of Delhi, on 20th February, 2019.

Dr. Kamlesh Patel - Invited talk - Low-power generation using Natural Resources-Portable power devices, 8th National Science Day Symposium, University of Delhi South Campus, New Delhi, 27-28 Feb 2019.

## **Students under Exchanged Programme – 01**

Niharika Kohli Under Shastri Indo-Canadian Fellowship

### **Placement Details**

Number and percentage of students placed - 09 and 60% (M.Tech.)

### **Extension and Outreach Activities -02**

Department organized the Annual Visitors' Program on March 31, 2019 at UDSC and experts from varied fields were invited.

Annual Alumni meet was organized on March 31, 2019.

Educational tour to Defence Electronics Application Laboratory (DEAL) Dehradun in March 2019.

### **Numbers of M.Phil./Ph.D. Degrees Awarded – 10**

### **Faculty Strength –**

08 (07 permanent and 01 BSR fellow)

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## **GENETICS**

### **Major activities and achievements**

The faculty members have made notable scientific contributions. Research work from Prof. A.K. Pradhan's group led to the development of some 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. Prof. Thelma lab's research highlights include demonstration of i) oligogenic contribution to the common condition of congenital hypothyroidism among newborns; ii) novel digenic influence in familial Parkinson's disease; iii) genetic evidence for cumulative contribution of genes of minor effect and iv) candidate gene based and hypothesis free approaches to characterize ARL15, the novel susceptibility gene identified in the lab for rheumatoid arthritis in a synovial tissue derived cell line. 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 discovered several novel drug targets to ameliorate the pathogenesis of human neurodegenerative disorders and have 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 a GTPase localized to the mitochondrial ribosomes that is likely to respond to changes in ATP/ADP ratio and regulate cells ability to carry out respiration.

### **Honours/Distinctions (2018-19)**

Prof Thelma has been selected as Member, International Commission on the Clinical Use of Human Germline Genome Editing

Prof Thelma has been awarded Prof. SP Raychaudhuri endowment lecture award, Indian Society of Cell Biology

Prof. Rajam has been awarded Prof. H. C. Arya Gold Medal, 2018 and delivered his Memorial Lecture during 40<sup>th</sup> PTCA (I) meeting during February 14-16, 2019, IIT, Guwahati.

Prof. Pradeep Kumar Burma was elected as Vice-President of Indian Society of Cell Biology (2019-2021)

### **Publications**

John J, Kukshal P, Bhatia T, Nimgaonkar VL, Deshpande SN, Thelma BK. (2019) Rare variant based evidence for oligogenic contribution of neurodevelopmental pathway genes to schizophrenia. *Schizophr Res.* S0920-9964(18)30741-2. doi: 10.1016/j.schres.2018.12.045.

John J, Kukshal P, Sharma A, Bhatia T, Nimgaonkar VL, Deshpande SN, Thelma BK. (2018). Rare variants in Protein tyrosine phosphatase, receptor type A (PTPRA) in schizophrenia: Evidence from a family-based study. *Schizophr Res.* S0920-9964(18)30700-X. doi: 10.1016/j.schres.2018.12.012.

Juyal G, Sood A, Midha V, Thelma BK. (2018). Genetics of ulcerative colitis: putting into perspective the incremental gains from Indian studies. *J Genet.* 97(5):1493-1507.

Kumar S, Yadav N, Pandey S, Thelma BK. (2018) Advances in the discovery of genetic risk factors for complex forms of neurodegenerative disorders: contemporary approaches, success, challenges and prospects. *J Genet.* 97(3):625-648.

Kapoor S, Thelma BK. (2018). Status of Newborn Screening and Inborn Errors of Metabolism in India. *Indian J Pediatr.* 85(12):1110-1117. doi: 10.1007/s12098-018-2681-5.

Punchaichira T.J, Deshpande S.N, Thelma B.K.(2018). Determination of Dopamine- $\beta$ -hydroxylase activity in human serum using UHPLC-PDA detection. *Neurochem Res.* 43(12):2324-2332. doi: 10.1007/s11064-018-2653-1.

John J, Sharma A, Kukshal P, Bhatia T, Nimgaonkar VL, Deshpande SN, Thelma BK (2018). Rare variants in Tissue Inhibitor of Metalloproteinase 2 (TIMP2) as a risk factor for schizophrenia: Evidence from familial and cohort analysis. *Schizophrenia bulletin.* 189:190-195.

Kashyap S, Kumar U, Pandey AK, Kanjilal M, Chattopadhyay P, Yadav C, Thelma BK. (2018). Functional characterization of ADP ribosylation factor-like protein 15 in rheumatoid arthritis synovial fibroblasts. *Clin Exp Rheumatol.* 36(4):581-588.

Sood A, Midha V, Makharia G, Thelma BK, Halli SS, Mehta V, Mahajan R, Narang V, Sood K, Kaur K. (2018). A simple phenotypic classification for celiac disease. *Intest Res.* 16(2):288-292.

Singh A, Beniwal RP, Kukshal P, Bhatia T, Thelma BK, Deshpande SN (2018). A preliminary study of association of genetic variants with early response to olanzapine in schizophrenia. *Indian J Psychiatry.* 60(1):10-16.

Gupta A, Pandey R, Sinha R, Chowdhary A, Pal RK & 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.

Gulzar B, Mujib A, Rajam MV, Fruk A & 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. Doi.*10.1007/s11240-019-01563-0.

Tetorya M & Rajam MV. 2018. RNA silencing of PEX6 gene causes decrease in pigmentation, sporulation and pathogenicity of *Fusarium oxysporum*. *Plant Pathol.* 67: 67-75, Doi: 10.1111/ppa.12712.

Gulati P, Kaur P, Rajam MV, Srivastava T, Ali MA, Mishra P, Islam SS. (2018). Leukemia biomarker detection by using photoconductive response of CNT electrode: Analysis of sensing mechanism based on charge transfer induced Fermi level fluctuation. *Sensors Actuators B* 270: 45-55.

Gulati P, Kaur P, Rajam MV, Srivastava T, Mishra P, Islam SS. (2018). Single-wall carbon nanotube based electrochemical immunoassay for leukemia detection. *Analy. Biochem.* 10.1016/j.ab.2018.07.020.

Mahto BK, Sharma P, Rajam MV, Reddy PM & Dhar-Ray S. (2018). An efficient method for *Agrobacterium*-mediated genetic transformation of chilli pepper (*Capsicum annuum* L.). *Ind. J. Plant Physiol.* doi.org/10.1007/s40502-018-0389-1.

Rout Kadambini, Yadav Bal Govind, Yadava Satish Kumar, Mukhopadhyay Arundhati, Gupta Vibha, Pental Deepak and Pradhan Akshay K (2018). QTL landscape for oil content in *Brassica juncea*: Analysis in multiple bi-parental populations in high and '0' erucic background. *Frontiers in Plant Science* 9:1448. doi: 10.3389/fpls.2018.01448.

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* (in press)

Sivasubramanian R, Akshay K. Pradhan, Deepak Pental, Jagreet Kaur (2018). Genome-wide association mapping in *Arabidopsis* identifies novel genes underlying quantitative disease resistance to *Alternaria brassicae*. *Molecular Plant Pathology*, 19: 2719.

Mandal S, Rajarammohan S, Kaur J. (2018) *Alternaria brassicae* interactions with the model Brassicaceae member *Arabidopsis thaliana* closely resembles those with Mustard (*Brassica juncea*). *Physiol Mol Biol Plants*. 24(1):51-59.

Sarkar S. (2018). Neurofibrillary tangles mediated human neuronal tauopathies: insights from fly models. *J Genet.* 97(3):783-793.

Raj K, Sarkar S. (2019). Tissue-Specific Upregulation of *Drosophila* Insulin Receptor (InR) Mitigates Poly(Q)-Mediated Neurotoxicity by Restoration of Cellular Transcription Machinery. *Mol Neurobiol.* 56(2):1310-1329. doi: 10.1007/s12035-018-1160-3.

Kumar Paritosh, Singh AK, Mehrotra AK, Pental D, Burma PK (2018). Identification and characterization of the promoter of a gene expressing mainly in the tapetum tissue of cotton (*Gossypium hirsutum* L.) *Plant Biotechnology Reports* 12:377-388

Lohia R, Jain P, Jain M, Mishra H, Burma PK, Shrivastava A, Saran S (2018). Deletion of *Dictyostelium discoideum* Sir2A impairs cell proliferation and inhibits autophagy. *Journal of Biosciences* 43:351-364

Sharma PA, Verma V, Burma PK (2018). Analysis of activity driven by Upstream Regulatory Modules (URM) of tapetum specific genes TA29 and A9 at ectopic locations in tobacco transgenic *Journal of Plant Biochemistry and Biotechnology* 27: 443-452

Sharma PA, Burma PK (2018). An *in silico* analysis of upstream regulatory modules (URMs) of tapetum specific genes to identify regulatory *cis*-elements and transcription factors. *American Journal of Molecular Biology* 8:15-25.

Choubey A, Rajam MV. (2018) RNAi-mediated silencing of spermidine synthase gene results in reduced reproductive potential in tobacco. *Physiol Mol Biol Plants*. 24(6):1069-1081. doi: 10.1007/s12298-018-0572-x.

Gulati P, Kaur P, Rajam MV, Srivastava T, Mishra P, Islam SS. (2018). Single-wall carbon nanotube based electrochemical immunoassay for leukemia detection. *Anal Biochem.* 557:111-119. doi: 10.1016/j.ab.2018.07.020.

## Journals

### Faculty member in editorial board

Two (Prof. A. K. Pradhan, Prof. M. V. Rajam)



## **Research Projects**

Prof. B. K. Thelma- "The Indian Movement Disorder Registry and Biobank: Clinical and genetic evaluation of movement disorders in Indian patients - [26428]" Funding agency: DBT (2018-21)

Prof. M. V. Rajam- "CRISPR/Cas9 mediated control of the Geminiviruses involved in Papaya leaf curl disease". Funding agency: DBT (2019-22), Amount sanctioned: Rs.5180000.

Prof. A. K. Pradhan- Genomics-led improvement of abiotic stress tolerance in mustard rape for economic and environmental sustainability (Coordinator and Principal Investigator), Period: 2018-2021. Funding Agency: DBT-BBSRC (UK), Amount sanctioned: Rs. 10843000.

Prof. A. K. Pradhan- Nutritional Improvement of Indian Oilseed Mustard Using CRISPR-Cas9 Mediated Genome Editing. (Principal Investigator), Period: 2019-2022, Funding Agency: DBT, Amount sanctioned: Rs. 5345000.

Prof. P. K. Burma- Analyzing the regulation of tapetum specific TA29 promoter from *Nicotiana tabacum*. Period: 2018-2021. Funding agency- Science and Engineering Research Board (SERB), Amount: Rs. 3953000.

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.5760000.

## **Patents Filed /Granted**

Prof. B. K. Thelma- Two- Application ID 201711036983 & Application ID 201811005899 have been submitted.

## **Seminars Organized**

Seminar by Dr. Vibha Srivastava, Professor and Indo-U.S. GET in Visiting Fellow, UDSC & Professor of Plant Biotechnology, Dept. of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, USA

## **Seminar/Conference Presentations**

Prof. B. K. Thelma- Conference at Defense Institute of Physiology & Allied Sciences, Delhi October 4<sup>th</sup> 2018.

Prof. B. K. Thelma- Centre for brain research, IISc. Bangalore- November 15<sup>th</sup> 2018

Prof. B. K. Thelma- Speaker: National Science Day, UDSC February 28<sup>th</sup> -29<sup>th</sup>, 2019.

Prof. B. K. Thelma- Speaker: Bhaktivedanta Institute, Bangalore "FUSION 2019" on Ayurgenomics February 24<sup>th</sup> 2019.

Prof. B. K. Thelma- Conference at Guru Nanak Dev University, Amritsar, March 28<sup>th</sup> -29<sup>th</sup> 2019.

National Seminar on "Biotechnology Research in India – Current Status and Future Prospects". Jamia Hamdard (Hamdard University), New Delhi. March 26<sup>th</sup> -27<sup>th</sup>, 2019.

XIV Agricultural Science Congress, National Agricultural Science Complex, New Delhi. February 20-23<sup>rd</sup>, 2019.

National Conference on "Trends in Life Sciences and Biotechnology: Innovative Paradigms", Maitreyi College (University of Delhi), New Delhi. February 19<sup>th</sup> -20<sup>th</sup>, 2019

40<sup>th</sup> Plant Tissue Culture Association, India Annual Meeting and International Conference on “Trends in Plant Sciences and Agrobiotechnology-2019”. Indian Institute of Technology, Guwahati. February 14<sup>th</sup> - 16<sup>th</sup>, 2019.

Telangana State Science Congress. Telangana Academy of Sciences and National Institute of Technology, Warangal. December 22-24, 2018.

National Level Seminar on Recent Developments in Plant Stress Biology. Central University of Jammu. December 7-8<sup>th</sup> 2018.

4<sup>th</sup> International Plant Physiology Congress – 2018. National Botanical Research Institute, Lucknow and Indian Society for Plant Physiology. December 2-5<sup>th</sup> 2018.

National Symposium on Connecting Innovations in Plant Biology for Food and Nutritional Security. IARI, New Delhi. November 19<sup>th</sup> 2018.

International Conference on Interdisciplinary Approaches Towards Environmental Sustainability, International Society for Life Sciences and Indian Science Congress Association, Jaipur Chapter. November 15-17<sup>th</sup> 2018.

International Conference on Virology “INTERVIROCON-2018”, Post Graduate Institute of Medical Education and Research, Chandigarh. November 12-14<sup>th</sup> 2018.

National Symposium on Recent Trends in Plant Sciences. Kakatiya University, Warangal. September 9-10, 2018.

Lecture Series under UGC-CAS Programme. Osmania University, May 31<sup>st</sup> 2018.

Dr Jagreet Kaur- Speaker: Title of the talk: Development of stem rot tolerance in Indian oil in conference organized by NIPGR titled: Molecular Intricacies of Plant Associated Microorganisms-2019.

Dr. Surajit Sarkar- Invited talk in 3rd Madras Medical Mission (MMM) Genetics Meeting (3MGM2018), The Madras Medical Mission, Chennai, India (07.09.2018) (Title of the talk: Excavating pragmatic drug targets to suppress the pathogenesis of poly(Q) mediated neurodegenerative disorders).

Dr. Surajit Sarkar- Invited lecture in Workshop on Confocal Microscopy, Jiwaji University, Gwalior, (15-17 November 2018) (Title of the talk: Microscopic methods in biomedical research).

#### **Other Inter-Institutional Collaboration**

Prof. Thelma - Collaborative research involving nine Indian and seven UK institutes.

Prof. Rajam – Collaborative research involved three Indian institutions (IIHR, DU South Campus, DU North Campus)

#### **Students under Exchange Programme**

01

#### **Extension and Outreach Activities**

Seven tripartite Technology Transfer Agreement signed involving DU-BIRAC (DBT)- Seed Companies (Indian) for public outreach of the technology developed in the lab.

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

Ph.D.: 10

#### **Faculty Strength**

09

## Other Significant Information

Prof Thelma

Selected as Member- ICMR, Rare diseases task force

Selected as Member, APEX committee, Dept of Biotechnology, Govt of India.

Selected as Team leader, Centre of excellence on Genome Science and Predictive Medicine, (Phase II).

Selected as Member, Selection committee, INSPIRE faculty program.

Prof. Rajam has been selected as a Team Lead of a net-work project of DBT on “Validation of yield related genes in Black rice”.

Dr. Surajit Sarkar

Selected as a member of selection committee (2018), DBT- Newton- Bhabha Indo-UK PhD-placement programme. Department of Biotechnology, Government of India.

Selected as a member, DBT- Human Genetics and Genome Analysis Task Force (2018), Department of Biotechnology, Government of India.

Selected as a member for selection of “DBT- Biotechnology Career Advancement and Re-orientation Programme (Bio-CARE)”, Department of Biotechnology, Government of India.

Selected as executive member of Indian Society of Cell Biology (2019-2021).

Mr. Kamlesh Soni, doctoral student of the department received the best poster award for his work presented at the International Conference on Trends in Plant Science and Agro-Biotechnology 2019 under the aegis of Plant Tissue Culture Association held at IIT-Guwahati, 14<sup>th</sup> – 16<sup>th</sup> Feb 2019.

Mr. Kamlesh Soni received the best poster award for his work presented at National Science Day Symposium held at University of Delhi South Campus 27<sup>th</sup> -28<sup>th</sup> Feb 2019.

Prof. Pradeep Kumar Burma accompanied the students representing India at the International Biology Olympiad 2018 held at Tehran, Iran as an Observer and Jury member.

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## MICROBIOLOGY

### Major Activities and Achievements

Prof. Swati Saha laboratory examines two aspects of *Leishmania* DNA biology – DNA replication and chromatin modifications. The past year we have investigated the DNA replication protein Cdc45 in *Leishmania donovani*. We have confirmed that the role of this protein in replication is conserved in *Leishmania*. We find the *Leishmania* Cdc45 to interact with the DNA polymerase clamp protein PCNA. The motif via which it interacts with PCNA has been identified. The role of the interaction is being examined currently. The function roles of the GNAT-family histone acetyltransferases Elp3a and Elp3b in *Leishmania donovani* is currently investigated. Dr. Rajeev Kaul Laboratory studied the role of the Kaposi sarcoma-associated herpesvirus (KSHV) coded latent protein LANA in the progression of epithelial to mesenchymal transition (EMT) of cancer cells was investigated. LANA was found to co-localize with TCF8/ZEB1, a major contributor in EMT, further suggesting an important role for LANA in epithelial-to-mesenchymal transition of KSHV-infected cancer cells. Hepatitis C virus core protein interaction with cellular metastasis suppressor Nm23-H1 and its role in the promotion of cell migration and invasion was also studied. In a separate study, the KSHV lytic proteins K-RTA and K8 binding to cellular and viral chromatin to modulate gene expression were investigated. The data conclusively showed that K-RTA/K8 proteins specifically bind to these motifs on the host/viral genomes to modulate transcription of the host/viral genes during KSHV lytic reactivation. Prof. Rani Gupta Laboratory expressed Lipase gene under

the constitutive GAP promoter. Expression of reporter gene amylase cloned under AOX-1 promoter in lip<sup>+</sup> host was subsequently done using methyl oleate. Lipase led to the breakdown of methyl oleate, allowing sustained release of methanol that induced expression of reporter protein amylase under AOX1 promoter. Dr. Y. Khasa laboratory studied the production of recombinant Streptokinase, a therapeutically important thrombolytic agent in the *Pichia* expression system. Its expression was optimized at bioreactor. The bioprocess optimization of the catalytic domain of ubiquitin-like protease 1 (Ulp1) from *S. cerevisiae* was done in *E. coli* fed-batch culture where a ScUlp1 production of 3.25 g/L was achieved

### **Publications**

Paul, C., Khera, L., & Kaul, R. (2019). Hepatitis C virus core protein interacts with cellular metastasis suppressor Nm23-H1 and promotes cell migration and invasion. *Archives of virology*, 1-15.

Kaul, R., Purushothaman, P., Uppal, T., & Verma, S. C. (2019). KSHV lytic proteins K-RTA and K8 bind to cellular and viral chromatin to modulate gene expression. *PLoS one*, 14(4), e0215394.

Gaur, N., Tikla, T., & Kaul, R. (2019). Kaposi sarcoma-associated herpes virus (KSHV) latent protein LANA modulates cellular genes associated with epithelial-to-mesenchymal transition. *Archives of virology*, 164(1), 91-104.

Dua, A., Faridi, S., Kashyap, A., & Gupta, R. (2018). Characterization of a novel thiol activated phospholipase TAPLB1 from *Trichosporon asahii* MSR 54. *International journal of biological macromolecules*, 120, 537-546.

Babbal, Adivitiya, Mohanty, S., & Khasa, Y. P. (2019). Bioprocess optimization for the overproduction of catalytic domain of ubiquitin-like protease 1 (Ulp1) from *S. cerevisiae* in *E. coli* fed-batch culture. *Enzyme and microbial technology*, 120, 98-109.

Adivitiya, Babbal, Mohanty, S., & Khasa, Y. P. (2018). Engineering of deglycosylated and plasmin resistant variants of recombinant streptokinase in *Pichia pastoris*. *Applied microbiology and biotechnology*, 102(24), 10561-10577.

### **Research Projects**

DBT, Investigating cell cycle dependent gene expression in the protozoan parasite *Leishmania donovani*: a genome-wide study. 2019-2022 Prof. Swati Saha, Rs. 8260000.

SERB, 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. 2019-2022, Dr. Y. P. Khasa, Rs. 3959000.

DRDO, Process development for enzymatic synthesis of L-theanine, a nutraceutical using gamma-glutamyl transpeptidase from *Bacillus licheniformis*. 2018-2021. Prof. Rani Gupta, 3314000.

### **Seminars Organized**

Dr. Rohit K. Jangra from Department of Microbiology & Immunology, Albert Einstein School of Medicine, New York, USA, Delivered a talk on "Screening for host factors and neutralizing mAbs for respiratory virus infections" March 11, 2019.

### **Seminar/Conference Presentations (National / International)**

Dr. Y. P. Khasa gave an invited talk on "Development of bioprocess strategies for the over-production of recombinant therapeutics in Yeast expression system: Streptokinase as a case study" in International Conference on Molecular Basis of Diseases and Therapeutics (ICMBDT-2019) at Central University of Rajasthan, Kishangarh, Ajmer between March 08-10, 2019.

Dr. Y. P. Khasa gave an invited talk on "Engineering of N-glycosylation and plasmin susceptible residues of recombinant streptokinase: Process development and scale-up strategies in *Pichia pastoris*" in 6<sup>th</sup> Annual

Bioprocessing India Conference on “Recent advancements & applications in bioprocessing for healthcare, bioenergy and environment” at Indian Institute of Technology, Delhi, Hauz Khas, New Delhi, 110016, India between December 16-18, 2018.

Prof. Swati Saha gave an invited talk on “Transcriptional activation mediated by HAT2-dependent H4K10 acetylation in cell cycle stage-linked manner in *Leishmania donovani*” Genome Biology 2018: Mechanisms in health and disease, Bangalore, India (13<sup>th</sup> – 14<sup>th</sup> July 2018).

Prof. Swati Saha gave an invited talk on “H4K10 acetylation mediated by histone acetyltransferase HAT2 regulates transcriptional activation at different cell cycle stages” at 59<sup>th</sup> Annual Conference of Association of Microbiologists of India & International Symposium on Host-Pathogen Interactions, Hyderabad, India (9<sup>th</sup> – 12<sup>th</sup> December, 2018).

Prof. Swati Saha gave an invited talk on “HAT2-dependent H4K10 acetylation modulates transcriptional activation in cell cycle stage-dependent manner” at International Conference on Innovations for the Elimination and Control of Visceral Leishmaniasis, New Delhi, India (28<sup>th</sup> – 30<sup>th</sup> November 2018).

Aarti Yadav, Varshni Sharma, Jyoti Pal & Swati Saha gave a poster presentation on “ The role of PIP box of Cdc45 in *Leishmania donovani*” at the International Conference on Innovations for the Elimination and Control of Visceral Leishmaniasis, New Delhi, India (28<sup>th</sup> – 30<sup>th</sup> November 2018).

#### **Placement Details (Number and percentage of students placed)**

7 M.Sc. students and 5 Ph.D. students opted for higher education and industrial jobs (Ph.D., Post-doctorate, industry job etc.)

International Panaacea Ltd (IPL) visited Department of Microbiology on 2<sup>nd</sup> April 2018 for the campus recruitment for their Gurgaon location. (3 students were offered position).

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

Ph.D.: 4

**Faculty Strength** 5

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### **PHYSICAL EDUCATION & SPORTS SCIENCES**

#### **Major Activities and Achievements**

The department initiated revision of courses for UG and PG levels in Physical Education.. It also conducted innovative course work, organized pre-submission seminars, viva-voce examination for the Ph.D. students of the department. Our faculty visited various universities and institutions as resource persons, key note speakers, technical experts of various committees, and as experts for evaluation of UGC programmes. The Supervisors in the Department carry out research in the field of Sports Psychology, Sports Biomechanics, curriculum development, Sports & Exercise Physiology, Training and Sports Performance, Management concept in Sports, Sports Injury; and construction and validation of tools in sports psychology. Inspection for assessment of facilities and infrastructure availability in colleges for the commencing of Physical Education as a Discipline Course in BA Programme is also an important responsibility of the department.

#### **Publications**

Tiwari, Sandhya, Tiwari, Sandeep and Kumar Pardeep. (2018) “A Comprehensive Text book of Physical Education Class XI and XII” Delhi: Arya Book Depo Publication.

Tyagi S., Vanaik A. & Wasuja M. (May 2018) FITNESS INSTRUCTOR MANUAL FOR FITNESS TRAINERS – Aerobics & Group Trainers {New Edition} 2018

### **Conferences Organized**

“International Conference on Olympics and Indian Values in Global Context” as one of the organizers in collaboration with Ministry of Youth Affairs and Sports and Kirori Mal College, University of Delhi, 25-27 September, 2018.

Dr. Sarita Tyagi Organizing Secretary for the workshop on “FUNCTIONAL TRAINING” from May 5 – May 6, 2018 held at IGIPESS

Dr. Sarita Tyagi Organized workshop on ‘Sensitization for Prevention of Sexual Harassment against women at Workplace’ on October 5 (Friday), 2018 at IGIPESS, B-Block, Vikas Puri

### **Seminar/Conference Presentations (National/International)**

Kumar, Pardeep Participated and presented two research papers in 8<sup>th</sup> International conference on Health, Wellness and Society, which was held from 20<sup>th</sup> to 21<sup>st</sup> September 2018 at Imperial College, London, United Kingdom. Both the papers appeared in the proceeding of the conference as under- 1. Title- An Interactive Impact of Anxiety and Mental Skills Training on Sports Performance of National Level Indian Athletes (Presented as sole author); 2. Title: The Vipassana- Truth Based Meditation Unfolding Causal Genesis of Being for Wellness and Peace (Co-author but single speaker)

Tiwari, Sandeep Presented a Paper on “Sustainable Development Goals and Revised International Charter of Physical Education Physical Activity and Sports” in International Conference on Olympics and Indian Values in Global Context organized by Kirori Mal College, University of Delhi, 25-27 September, 2018.

Tiwari, Sandeep Delivered Special Lecture on “Psychological Assessment of Sports Persons” organized by Department of Physical Education, Panjab University Chandigarh on 21<sup>st</sup> January, 2019

### **Extension and Outreach Activities**

Dr. Sarita Tyagi Participated as Resource person in two days’ workshop on “FUNCTIONAL TRAINING” from May 5 – May 6, 2018 held at IGIPESS

Dr Sarita Tyagi Served as a Resource Person in Fitness Trainer Course (FITCO) held in IGIPESS from July 2, 2018 to July 29, 2018.

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

Ph.D. 07.

### **Faculty Strength**

08

### **Other significant information**

Dr Sandeep Tiwari as Expert for Development of Syllabus of Physical Education during one day Workshop organized by NCERT on 23<sup>rd</sup> July, 2018, NCERT, New Delhi.

Dr Sarita Tyagi Invited as a Visiting Faculty by Academy for Sports Sciences, Research & Management, Delhi Pharmaceutical Sciences Research University, Delhi

Dr. Anil Kumar Vanaik Appointed as Expert Member of Board of Studies of Panjabi University, Patiala.

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## PLANT MOLECULAR BIOLOGY

### Major Activities and Achievements

Work undertaken by Prof. AK Tyagi has helped in identification of metaQTLs associated with grain size/weight in diverse Indian *indica* and aromatic rice accessions. The forward genetics has been also used to define genetic determinants of growth habit and flowering time in chickpea. Prof. J.P. Khurana focuses on light sensory receptors, mainly on cryptochromes which perceive UV-A/blue light to regulate plant height and flowering time. Genomic resources are being developed in wheat and mulberry. Towards functional validation of selected heat stress responsive transcription factor genes, over-expression transgenics were raised by Prof. Paramjit Khurana. Heat shock factors (Hsfs) are being investigated in rice by Prof Anil Grover. The results suggest that Cpn60β4 plays important role(s) in chloroplast development and is a key factor in plant growth, development and flowering in *Arabidopsis*. Modulation of the RNA-based anti-viral resistance pathways (RNAi) in plants is being studied by Prof. Indranil Dasgupta who have identified the set of genes differentially regulated in rice upoin infection with rice tungro viruses. Prof. Sanjay Kapoor works on understanding the molecular aspects of male gametophyte development. Prof. Arun Sharma identified 85 ERFs related to fruit ripening in tomato. Overexpression and silencing of SIMBD5, SIMBD6, SIMBD7 and SIMBD13 by using artificial microRNA (amiRNA) have been attempted. Prof. Girdhar Pandey concentrates on functional genomics analyses of calcium mediated signaling components under nutrient limitation and abiotic stresses in *Arabidopsis* and rice. Saurabh Raghuvanshi is engaged in functional characterization of miRNA-mediated drought responsive regulatory networks. Dr. Surekha Katiyar is engaged in elucidating the biological role of tetraspanin proteins.

### Honours/Distinctions

Professor Akhilesh K. Tyagi: P. Parija Memorial Lecture Award, Ravenshaw University, Cuttack, 2019

Professor Paramjit Khurana:

Prof. J.C. Bose National Fellowship for 2017-2022, Department of Science & Technology, Government of India.

General Secretary (*Outstation*), The National Academy of Sciences, Allahabad, India, 2019.

Member of Sectional Committee on Plant Sciences Indian Academy Science, (2019)

Professor Indranil Dasgupta:

J.C. Bose Fellowship, Science and Engineering Research Board (SERB), 2017 -2022,

Awarded Rs. 19 lakhs for the current financial year.

Prof. G.K. Pandey:

J.J. Chinoy Gold medal award, Indian Society of Plant Physiology, New Delhi, India (2018)

Elected Fellow of National Academy of Agricultural Sciences (NAAS), New Delhi, India (2018).

### Publications

Agarwal , P. and Khurana, P. (2019). Functional Characterization of hsf1 from wheat in response to heat and other abiotic stress conditions. *Func. Int. Genomics* ([doi.org/10.1007/s10142-019-00666-3](https://doi.org/10.1007/s10142-019-00666-3))

Agarwal, P., Baranwal, V.K. and Khurana, P. (2019). Genome-wide analysis of bZIP transcription factors in wheat and functional characterization of a TabZIP under abiotic stress. *Scientific Reports* ([doi.org/10.1038/s41598-019-40659-7](https://doi.org/10.1038/s41598-019-40659-7))

Basu, U., Bajaj, D., Sharma, A., Malik, N., Daware, A., Laxmi, Thakro, V., Upadhyaya, H., Kumar, R., Tripathi, S., Bharadwaj, C., Tyagi, A. and Parida, S.K. (2019). Genetic dissection of photosynthetic efficiency traits for enhancing seed yield in chickpea. *Plant Cell & Environ.* 42: 158-173.

- Parida, A.P., Sharma, A. and Sharma, A.K. (2019). AtMBD4: A methylated DNA binding protein negatively regulates a subset of phosphate starvation genes. *J. Biosci.* 44:14.
- Singh, P., Mathew, I., Verma, A., Tyagi, A. and Agarwal, P. (2019). Analysis of rice proteins with DLN repressor motif/s. *Int. J. Mol. Sci.* 20:1600.
- Agarwal, P. and Khurana, P. (2018). Overexpression of TaMADS from wheat promotes flowering by upregulating expression of floral promoters and provides protection against thermal stress. *Plant Gene* (doi.org/10.1016/j.plgene.2018.100168)
- Bheri, M. and Pandey, G.K. (2018). Protein Phosphatases Meet Reactive Oxygen Species in Plant Signaling Networks. *Environment and Experimental Botany*, <https://doi.org/10.1016/j.envexpbot.2018.10.032>
- Gahlaut, V., Baranwal, V.K. and Khurana, P. (2018). miRNomes involved in imparting thermotolerance to crop plants. *3 Biotech.* 8: 497
- Hairat, S., Baranwal, V.K. and Khurana, P. (2018). Identification of *Triticum aestivum* nsLTPs and functional validation of two members in development and stress mitigation roles. *Plant Physiol. Biochem.* (doi.org/10.1016/j.plaphy.2018.07.030).
- International Wheat Genome Sequencing Consortium (IWGSC) (2018). Shifting the limits in wheat research and breeding using a fully annotated reference genome. *Science* 361; 661-674.
- Pandiarajan, R. and A. Grover. 2018. *In vivo* promoter engineering in plants: Are we ready? *Plant Science* 277: 132-138.
- Parida, A.P., Raghuvanshi, U., Pareek, A., Singh, V., Kumar, R. and Sharma, A.K. (2018). Genome-wide analysis of genes encoding MBD domain-containing proteins from tomato suggest their role in fruit development and abiotic stress responses. *Molecular Biol. Rep.* 45:2653–2669.
- Shankar, A., Fernandes, J.L., Kaur, K., Sharma, M., Kundu, S. and Pandey, G.K. (2018). Rice Phytoglobin regulate responses under low mineral nutrients and abiotic stresses in *Arabidopsis thaliana*. *Plant Cell Environment* 2018 Jan;41(1):215-230.
- Sharma, C., Saripalli, G., Kumar, S., Gautam, T., Kumar, A., Rani, S., Jain, N., Prasad, P., Raghuvanshi, S., Jain, M., Sharma, J. B., Prabhu, K.V., Sharma, P.K., Balyan, H.S. and Gupta, P.K. (2018) A study of transcriptome in leaf rust infected bread wheat involving seedling resistance gene *Lr28*. *Functional Plant Biology* 45: 1046-1064.
- Sharma, M. and Pandey, G.K. (2018). OsPUB75, an Armadillo/U-box protein interacts with GSK3 kinase and function as negative regulator of abiotic stress response. *Environmental and Experimental Botany*, <https://doi.org/10.1016/j.envexpbot.2018.10.022>.
- Sharma, M. and Pandey, G.K. (2018). Editorial: Genomics and Functional Genomics of Stress-mediated Signaling in Plants: Volume II. *Curr Genomics.* 2018 Jan;19(1):2-3.
- Singh, A., Yadav, A.K., Kaur, K., Sanyal, S.K., Jha, S.K., Fernandes, J.L., Sharma, P., Tokas, I., Pandey, A., Luan, S. and Pandey, G.K. (2018). Protein Phosphatase 2C, AP2C1 Interacts with and Negatively Regulates the Function of CIPK9 under Potassium Deficient Conditions in *Arabidopsis*. *Journal of Experimental Botany* 69(16):4003-4015.
- Yadav, A.K., Jha, S.K., Sanyal, S.K., Luan, S. and Pandey, G.K. (2018). *Arabidopsis* Calcineurin B-like proteins differentially regulate phosphorylation activity of CBL-interacting protein kinase 9. *Biochem Journal* 30;475(16):2621-2636.
- Yadav, K., Jha, S.K., Sharma, M. and Pandey, G.K. (2018). Mitogen activated kinase: A versatile signaling cascade in plants. *Journal of Proteins and Proteomics*, 9(1) 2018 pp 57-72.



## **Journals**

Teachers are on various Editorial Boards of various Scientific Journals:

Professor Akhilesh K. Tyagi, Professor Jitendra P. Khurana, Professor Paramjit Khurana, Professor Anil Grover, Professor Indranil Dasgupta, Professor Arun K. Sharma and Professor Girdhar K. Pandey.

## **Research Projects**

NASF, ICAR as PI, "Identification of super donors and alleles for spikelet fertility and low chalkiness under thermal stress in rice", 2018 – 2020. Professor Anil Grover (with 4 CCPIs namely Madan Pal Singh, Division of Plant Physiology, ICAR-IARI, New Delhi; Girish Chandel, IGKV, Raipur; Manu Agarwal, University of Delhi Delhi; S.Vanisri, PJTSAU, Hyderabad). 1.12 Crore

“Genetic Enhancement of Mulberry by Genomics Approaches: A Multi-Component Network Project”; Network-Project 1: Genomic Resources for Mulberry: Indian Mulberry Nuclear Genome Sequencing. Network-Project 3a: Discovery and validation of growth and abiotic stress related genes in mulberry, funded by DBT, from June 2018; for 1.27Cr.

DBT, Targeted genome editing of calcium signaling components to develop stress tolerant rice, 2018-2021, Professor Girdhar K. Pandey, 65 lakhs

DBT, Identification of K<sup>+</sup> sensing machinery in rice, 2016-2019, Professor Girdhar K. Pandey, 15 lakhs

## **Seminars Organized**

Organized DPMB Annual Symposium from March 14 to March 15, 2019

## **Conferences Organized**

Professor Paramjit Khurana organized the “Women in Science & Science for Women’ meeting at NASI, Allahabad, on March 8-9, 2019.

Dr. Saurabh Raghuvanshi organized the National Symposium on Database Development and Biocuration, April 6-7, 2018, UDSC. Funded by DBT and DU.

## **Seminar/Conference Presentations (National/International)**

Professor Paramjit Khurana

“S & T for Skill Development towards Employment Generation” at NASI-ICAR two days ‘Awareness building and Sensitization Program on Health, Nutrition and Environment of Nicobari Tribals’ at CIARI, on April 20-21, 2018, at Port Blair, Andamans.

Thematic Address on “Gender Sensitization: Changing the Mindset” at NASI-AIIMS Rishikesh on Sensitization Workshop on Technological Empowerment of Women on at AIIMS Rishikesh, May 25-26, 2018.

Valedictory address on “Gender Sensitization: Changing the Mindset” at IGNOU during a three-week residential programme titled “Breaking Stereotypes in the field of Science and Technology for Girl Students through Motivational Guidance”, under the Vigyan Jyoti programme of DST, on June 18, 2018.

Introductory address in NASI-UK chapter and UCOST organized two days’ workshop on “Awareness building and sensitization of science and technology for the tribal population of Uttarakhand” at Chakrata Uttarakhand on June 27-28, 2018.

Delhi University Botanical Society Inaugural Talk on September 5, 2018, on “Genes and Genomes for Climate Smart Agriculture”, at Botany Department, Univ. Delhi.

Address on “Plants for the Future” at IIT-Guwahati during a three-week residential programme in the field of Science and Technology for Girl Students, under the Vigyan Jyoti programme of DST, on September 14, 2018.

Inaugural address of the Deshbandhu College Botanical Society on “Climate Smart Agriculture in the Era of Plant Genomics”, on September 19, 2018.

Inaugural address of the Zakir Hussain College Botanical Society on “Role of Plant Biology under Changing Climatic Conditions”, on September 20, 2018.

NASI 88th Annual Meeting and Symposium at MGCGV & DRI, from Dec. 6-8, 2018, at Chitrakoot, MP.

Invited talk on “Molecular Physiology of Thermal Tolerance in Indian Wheat’ at the National symposium on “Current trends & Future Prospects in Plant Science Research at Department of Botany, Banaras Hindu University, on Feb 1-3, 2019.

Participated in the INSA-IBSD organized Roadmap for Utilization of Bioresources towards bioeconomy, by IBSD/NASI and BCIL on February 4-5, 2019.

Keynote lecture on ‘Mulberry Genomics’ at the International Conference on trends in Plant Sciences and Agrobiotechnology-2019 (ICTPA), organized by IIT-Guwahati, from Feb 14-16, 2019.

Invited talk on ‘The Mulberry genomics landscape – a rendezvous on the lesser trodden path’ in the 6th Asia Pacific Congress of Sericulture and Insect biotechnology (APSERI), organized by International Sericulture Commission and Central Silk Board, India, from March 2-4, 2019, at Mysore, India.

Professor Anil Grover

Invited to attend International Plant Molecular Biology meeting at Montpellier, France (August 4-12, 2018) as member, Board of Directors, ISPMB

Professor Indranil Dasgupta

Participated in the 27th Annual Conference of the Indian Virological Society, held from 12th to 14th November, 2018 at Post-Graduate Institute for Medical Education and Research, Chandigarh. Chaired a session and presented a talk.

Professor Girdhar K. Pandey

What we are learning from molecular biology research? National symposia on Recent advances in biological sciences, Shivaji College, New Delhi, 10 April 2019.

Functional genomics of Armadillo/U-box proteins in plants: Utilization for development of stress tolerance. DAE-BRNS Life Symposium 2018 (Frontier in Sustainable Agriculture), Bhabha Atomic Research Center, Mumbai, 26-28 April 2018.

How calcium regulates phosphorylation-dephosphorylation network? K<sup>+</sup> deficiency stress signaling in plants International conference on Role of Genetics, Epigenetics, Environment and Nutrition towards plants, animal and Human health under climate change (GEENPAHH2019), 22-24 Feb 2019.

How calcium signaling regulates oxidative stress responses in Arabidopsis? Role of CIPK-VDAC module. Climate Resilient Open Partnership for Food Security (CROP-FS), World Universities Network, ICGEB-JNU, New Delhi, 7-8 Dec 2018.

Role of Armadillo/U-box proteins in plants: Utilization for development of stress tolerance. International Plant Physiology Congress, CSIR-NBRI, Lucknow, UP, India, 2-5 Dec 2018.

Phytoglobins, mineral nutrient deficiency and abiotic stress in plants: What we are learning from functional genomic approach? International conference on Plant Genetics and Genomics: Next Gen Crops for Sustainable Agriculture, Chandigarh, India, 19-20.

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

Ph.D. - 4

### **Faculty Strength**

Permanent - 10

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## **FACULTY OF LAW**

### **Major Activities and Achievements**

The three law centres of the Faculty of Law, which impart LL.B course, had a vibrant academic year 2018-19 strewn with several academic events and activities, the details of events and activities of the three law centres are given in their independent reports provided herein. At the level of the faculty which imparts LL.M and Ph.D. programmes, many knowledge enrichment programmes in the form of 'Eminent Professor's Lecture' such as lecture by Prof. Ved P. Nanda, John Evans Distinguished University Professor, University of Denver and Emeritus Professor, University of Delhi talks and interactive sessions, seminar, visit by foreign dignitaries, and were held. The faculty also organized a Faculty Development Programme from 17 to 24 March 2019 and the alumni meet on 30 March 2019 which was attended by its illustrious alumni.

### **Seminars Organised**

Total Number of seminar organised: 06

Mr. Jörg Kaufmann, Partner, Waldenberger Rechtsanwälte (Berlin based Law Firm), spoke on "GDPR, Blockchain & the Controller", on 29 September 2018.

Prof. Jean Allao, Associate Dean (Research), Faculty of Law, University of Monash, spoke on "Decolonisation's Contribution to International Law: The Concepts of Jus Cogens and Obligations Erga Omnes", on 4 October 2018.

Mr. Thomas E. Nanney, University of Missouri, Kansas City School of Law, "Lecture on Mooting", on 18 January 2019.

Hon'ble Justice Sapna Malla, Judge, Supreme Court of Nepal, "Advocacy Strategies for Social Change", on 18 February 2019.

Prof. Ved P. Nanda, John Evans Distinguished University Professor, University of Denver, and Emeritus Professor of University of Delhi, Special Lecture on "Analysing International Developments from Gender Perspective", on 8 March 2019.

National Seminar on Law, Economics and Technology was held from 16 to 17 November 2018 at Umang Bhawan, which was funded by University of Delhi.

### **LL.M./Ph.D Awarded**

LL.M. - 55

Ph.D. - 05

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## CAMPUS LAW CENTRE

### Major Activities and Achievements

The Department of Campus Law Centre is one of the most sought after law schools in India. The academic year 2018-19 commenced with the Orientation Programme for freshers. The major activities included 14<sup>th</sup> K.K. Luthra Memorial Moot Court competition, wherein 52 national and international institutions participated, such as NLSIU, Bangalore, NALSAR, Hyderabad, Symbiosis Law School, ILS, Pune, Northumbria Law School (U.K.), University of Bristol Law School, (U.K.), Sri Lanka Law College and London College of Legal Studies (South), Bangladesh; a workshop on Arbitration on 2<sup>nd</sup> February, 2019; three International Conferences on Quality Control in Criminal Investigation (22-23 February 2019), Health Laws with Special Reference to Women's Health Issues (14 - 15 February 2019) and Domestic Reception of International Law (12 - 13 April 2019); CLC-CCI Moot Court on Competition Law, 2019, the 1st CLC Delhi NCR Moot Court Competition on 5<sup>th</sup> and 6<sup>th</sup> April, 2019, Placement Week etc.

### Honours/Distinctions

Mahalwar, Vandana was awarded Fulbright Nehru Postdoctoral Research Fellow.

Professor (Dr) Usha Tandon, Professor-in-Charge of Campus Law Centre, awarded with "Phenomenal She", 2019, on International Women Day, 2019, by Indian National Bar Association.

### Publications

Grewal, R. (2018). Need for refugee law in India: A legal analysis. *International Journal of Management, Administration, Leadership & Education A Refereed, Multidisciplinary*, 4 (2), 48-55.

Jeenger, K. (2018). Introducing the principles of applicability of IHL. *Journal of Campus Law Center*, VI, 62-73.

Jeenger, K. (2018). How ability requirement in AP II may disable its applicability to NIACs. *ISIL Yearbook of International Humanitarian and Refugee Law*, XVI-XVII, 2016-17, 43-56.

Kaur, H. (2019). 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.

Koonan, S. Cullet, P. Bhullar, L. (Eds). (2019). *Right to Sanitation in India: Critical Perspectives*. New Delhi, Oxford University Press.

Koonan, S. (2019). Sanitation Interventions in India: Gender Myopia and Implications for Gender Equality', *Indian Journal of Gender Studies*, XVI (1&2), 40-58.

Kumar Singh, K. (2018). Bayer-Monsanto Merger and India's IP Approach to Agricultural Biotechnology: Navigating through a complex web of law and policy, *Asian Biotechnology and Development Review*. 20(1), 3-25.

Kumar Singh, K. (2018). Book Review of the Book "Create, Copy, Disrupt India's Intellectual Property Dilemmas by Prashant Reddy T. and Sumathi Chandrashekar, Oxford University Press India 2016, *Journal of The Campus Law Centre*, VI, 93-96.

Singh, S. (2018). One Nation One Election- How Practical is the Idea for India. *NLUJA*, 3, 96-127.

Tandon, U. et al. (2018). Preliminary Examination of Rape and Other Forms of Sexual Violence in International Criminal Law: A Feminist Analysis, *Quality Control in Preliminary Examination*, 589-630, Brussels: TOAEP.

Tyagi, N. (2018). Revision and Reforms in the Family Laws through Uniform Civil Code: An Unfinished Agenda Towards Women Empowerment and Gender Justice, *Social Action*, 68(1).

Tyagi, N. (2018). Interface Between Intellectual Property Rights And Human Rights: An Overview Of Private Property Rights And Access To Medicine. In *IPR and Human Rights with Special Emphasis on India*, New Delhi: The Indian Law Institute.

### **Number of faculty serving as Editor(s)/Co-editor(s)/Member(s) of Editorial Board**

Editor/Associate Editor – One faculty member in two journals

Member of Editorial Board – Five faculty in five different journals

### **Seminars /Workshops Organised - 23**

Hon'ble Mr. Justice Navin Sinha, Judge Supreme Court of India, Hon'ble Mr. Justice Sanjeev Sachdeva, Judge of High Court of Delhi, Mr. A.S. Chandhiok and Mr. Rakesh Munjal, Senior Advocates, Supreme Court of India, Spoke in the Orientation Programme for Freshers, 18 August 2018.

Padma Vibhushan Shri Fali S. Nariman, senior advocate of Supreme Court of India spoke on “The World moving at 105, 441 Kilometers an hour: keep up” on 22 September 2018.

Padma Shri Prof. Dr. N. R Madhava Menon delivered lecture on “Changing Dimensions of Legal Education and Legal Profession”, 11 October 2018.

Shri (Dr.) Subhash C. Kashyap, a political scientist and expert in Constitutional Law, spoke on “Popular Myths about the Constitution”, 1 November 2018.

Hon'ble Mr. Justice R.C Lahoti, Former Chief Justice of India spoke on “Live-in Relationship-Legal Issues”, 10 January 2019.

Prof. Richard Whish, Emeritus Professor of Law at King's College London, delivered lecture on the topic “Abuse of Dominance in the EU”, 31 January 2019.

Hon'ble Mr. Justice Valmiki J. Mehta, Judge, High Court of Delhi spoke on the topic “*Contract Laws*” on 9 February 2019.

Mr. K Venugopal, the Attorney General of India and Senior Advocate, Supreme Court of India spoke on the valedictory day of the Weekly Lecture Series on 2 March 2019.

Moot Court Society, CLC, in association with Smt. Nirmal Luthra hosted the 14<sup>th</sup> K.K. Luthra Memorial Moot Court, 2018 from 19<sup>th</sup> to 21<sup>st</sup> January, 2019. Hon'ble Mr. Justice Uday U. Lalit, Judge Supreme Court of India inaugurated the competition. Hon'ble Mr. Justice Rohinton F. Nariman, Judge Supreme Court of India distributed the prizes to the winners along with Hon'ble Mr. Justice Sanjeev Sachdeva, Hon'ble Mr. Justice Prateek Jalan and Hon'ble Mr. Justice Manoj K. Ohiri, Hon'ble Judges of the Delhi High Court.

Moot-Court Society, CLC, in association with Competition Commission of India hosted the CLC-CCI Moot Court on Competition Law, 2019 on 15 and 16 March, 2019.

Campus Law Centre in association with International Chamber of Commerce, India (ICC India) supported by the ICC International Court of Arbitration organised a workshop on Arbitration on 2 February 2019. The Chief Guest in this event was Hon'ble Mr. Justice Manmohan, Judge, High Court of Delhi and the guest of Honour was Mr. Ajay Thomas, Independent Arbitrator, Vice Chair ICC India Arbitration Group.

### **Conferences Organised**

The International Conference on Health Laws with Special Reference to Women's Health Issues, held on 14 and 15 February 2019, funded by University of Delhi.

Professor (Dr.) C Raj Kumar, Vice Chancellor O.P. Jindal Global and Professor (Dr.) Hemanta Senanayake, Chair Professor, Faculty of Medicine, University of Colombo, Sri Lanka were the Chief Guest and Guest of Honour respectively for the inaugural session.

International Conference on Quality Control in Criminal Investigation held from 22 to 23 February 2019 in Indian Law Institute in which Campus Law Centre was one of the academic partners.

Domestic Reception of International Law held on 12 and 13 April 2019. High Commissioner and the Deputies of Lithuanian and Argentinian embassy to India witnessed the event.

### **Seminar/Conference Presentations**

Alka Chawla

Chaired a session in a workshop on World IP Day in FICCI on 30th April, 2019. Resource person at Two day workshop on Enforcement of Intellectual property Rights for In service CBIC officers, Faridabad, on 30<sup>th</sup> April 2019.

Addressed senior officers from Customs Department at National Academy of Customs, Indirect Taxes and Narcotics on "The Copyright Act 1957: Introduction, Offences, Infringement and Role of Customs".

Ezekial Jarain

Participated as a co-panelist in the panel discussion on "*Tales of Pluralism*" organized by the Department of Social Work, University of Delhi, on 22 February 2019 to celebrate North East Day.

Harleen Kaur

Presented paper, "Towards the Protection of Surrogate Child: Need for a Comprehensive National and International Framework" in International Seminar on Protection of Women And Children Rights "Issues and challenges" organized by Law Mantra in collaboration with Indian law Institute, New Delhi, 12 January 2019.

"Sexual offences under IPC and Allied Laws: Emerging Issues" at Govind Ballabh Pant Govt. Engineering College, Okhla Industrial estate, New Delhi, 18 March 2019.

Rights of Persons with Disability Act, 2016, at GovindBallabh Pant Govt. Engineering College, Okhla Industrial estate, New Delhi, 11 February 2019.

Usha Tandon

"Training Program on Environmental Legislations, Interpretation, Enforcement, Legal and Statutory Requirements" on "Environmental Crimes: Control and Reviews" organized by Haryana Institute of Public Administration, at HIPA Complex, Gurugram, 14 September 2018.

Chaired a session on 'Gender, Disaster Management and Sustainable Development' in International Conference on Governance for Sustainable Development, organized by University of Jayewardenapura, Sri Lanka in association with Network of Asia-Pacific Schools and Institutes of Public Administration & Governance (NAPSIPAG), at Colombo and Kandy, Sri Lanka, 6-7 October 2018.

Delivered a talk on 'Opening Remarks' and 'Closing Remarks' in the International Conference on 'Quality Control in Criminal Investigation' organised by CILRAP at Indian Law Institute, ND, 22-23 February 2019.

Co-Panelist made presentation on 'Use of Investigation Plans in Indian Criminal Justice: The Crime of Human Trafficking' in the International Conference on 'Quality Control in Criminal Investigation' organised by CILRAP at Indian Law Institute, New Delhi, 22-23 February 2019.

Delivered Special Address in the Plenary Session of Conference on 'What Ails Legal Education in India? Reforming Indian Law Schools for the Future' by Centre for Post Graduate Legal Studies, O.P. Jindal Global University, Sonapat at University Campus, 23 October 2018.

Spoke in Teachers Training Program on Environmental Law and Policy on 'Shifting Paradigms in International Climate Change Law' organized by CELPR, National Law University Delhi, at NLUD, 10 July 2018.

Vandana Mahalwar

Presented paper titled ‘*Copyright and Academic Course Packs: How Congruous?*’ at the First IP & Innovation Researchers of Asia Conference, International Islam University, Kuala Lumpur, Malaysia, 31 January – 1 February 2019.

### **Other Inter-Institutional Collaboration**

Intellectual Beauty Contest organized in collaboration with National Commission for Women, New Delhi on 24 & 25 October 2018.

Seminar on Pre-Conception and Pre-Natal Diagnostic Techniques Act, 1994 organized in association with Central District Legal Services Authority on 31 October 2018.

Workshop on “Digital Literacy and Online Safety” organized in collaboration with Cyber Peace Foundation on 1 November 2018.

### **Placement**

A Placement Week was organized from 9 to 14 March 2019 to facilitate the recruitment of our students. 17 recruiters came and recruited 40 students.

### **Extension and Outreach Activities**

The following are the extension and outreach activities were being undertaken primarily by the Legal Aid Society of Campus Law Centre:

29/08/2018- 01/09/2018: Free Legal Aid Camp, Actus Legal Associates

25/09/2018 - 26/09/2018: Organised Aadhaar and Legal Services Camp. 50 volunteers and 75 beneficiaries

29/10/2018- 30/10/2018: Para Legal Service Training

09/11/2018: Legal Awareness Drive on National Legal Services Day; 26 volunteers and 96 beneficiaries.

24/11/2018: Door to Door Campaign 2018; 47 volunteers and around 10,000 beneficiaries.

15/01/2019: Legal Awareness Drive, Burari; 28 students volunteers and 85 beneficiaries.

15/02/2019: Awareness Programme on Road Safety; 6 students volunteers and 100 plus beneficiaries.

26/02/2019: Blood Donation Camp; 40 donors.

13/03/2019: Legal Awareness Drive, Timarpur; 25 students volunteers and 82 beneficiaries.

14/03/2019: Waste Management Drive, Tis Hazari, Kashmere Gate & Jama Masjid; 9 students volunteers.

24/03/2019: Health and Aadhaar Camp, Majnu ka Tila; about 125 beneficiaries.

28/03/2019: 42 students volunteers made a visit to Tihar Jail and conducted a general survey of 87 inmates.

### **Faculty Strength**

Permanent - 43

Guest - 7

### **Other Significant Information**

The IAFL Studentship, 2019 is awarded to Ms. Subham Kumar Jain for USA; the IINA Internship, 2019 in Europe is awarded to Mr. Kunal Saini and Ms. Raavi Kumar Jotwani. Mr. Rishab Pandey secured one fully funded Shanghai Summer School in Chinese Political and Legal Culture.

Campus Law Centre in collaboration with Campus Law Centre Alumni Association (CLCAA) organized a Placement Week from 9 to 14 March 2019. Hon'ble Mr. Justice Arun Misra inaugurated the event.

Professor (Dr) Usha Tandon was Judge for The Undergraduate Awards, (Law), 2018, Dublin, Ireland. She was Member Advisory Council, MSB Global Law Institute, MSB University, Bharatpur, 2019.

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## LAW CENTRE I

### Major Activities and Achievements

Law Centre – I (LC-I) has been at the forefront of academic and co-curricular activities during 2018-19. It organized International Conference on International Trade Law, in association with the Centre for WTO Studies, Indian Institute of Foreign Trade from 21<sup>st</sup> to 23<sup>rd</sup> February 2019. The Conference saw the doyen in the field of International Trade Law, such as Prof. Peter Van den Bosche, Member of the Appellate Body of the World Trade Organization (WTO) and Prof. Robert Howse, Lloyd C. Nelson Professor of International Economic Law, New York University School of Law. The XV<sup>th</sup> All Delhi - NCR Moot Court Competition was held on 16<sup>th</sup> March 2019. In the co-curricular front, the Legal Services Society has been actively engaged in providing legal aid and awareness to people in Delhi. The Paralegal Volunteers have been working very closely with the Delhi State Legal Services Authority and have successfully executed several projects.

### Publications

Ajit, Amrendra Kumar. (2019). Methodology of comparative legal research. In B.C. Nirmal, Singh, Rajnish Kumar and Nirmal, Arati; (eds.) *Legal research and methodology*. 93-110, New Delhi: Satyam International Publications.

Ajit, Amrendra Kumar. (2019). New dimensions of Human Rights to Privacy and its future implications. In Ahuja, V. K. (ed.) *Human Rights - Contemporary issues*. 235-253, Lucknow: Eastern Book Company.

Anand, Pushkar. (2018, Oct. 10). Does Right to Information apply to India's Investment Treaty Arbitration Cases? The Wire. Retrieved from <https://thewire.in/trade/does-right-to-information-apply-to-indias-investment-treaty-arbitration-cases>.

Anand, Pushkar. (2019, Mar. 3). With the ICJ Opinion on Chagos, Has the Sun Finally Set on British Empire? The Wire. Retrieved from <https://thewire.in/world/with-icj-opinion-on-chagos-has-the-sun-finally-set-on-the-british-empire>.

Anand, Pushkar. (2019, May 3). Vedanta, IFC Judgments Give Fresh Ammunition for Those Seeking Environmental Justice. The Wire. Retrieved from <https://thewire.in/law/vedanta-ifc-judgements-environmental-justice>.

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.

Dass, Poonam. (2018). Intrusion into woman's privacy by use of technology and her vulnerability to cybercrimes - Legal challenges in India, *NLUA Law & Policy Review*. 3(II), 9-32.

Mallaya, Susmitha P. (2018). An insight into Welfare of Consumers: Need for Revamping the Regulatory Mechanisms in Financial Sector in India. *Kashmir Journal of Legal Studies*. 7, 1-12.

Mallaya, Susmitha P. (2018). Documentary Credit and Money Laundering: An Overview. *Chartered Secretary*. 48 (4), 72-74.

Mallaya, Susmitha P. (2018). Documentary Credit Frauds: Need for Regulation of Banking Sector in India. *Journal of Indian Law Institute*. 60, 216-236.



Mallaya, Susmitha P. (2018). Nimesh Tarachand Shah v. Union of India: Diluting the Money Laundering Legislation in India. *Journal of Law Teachers of India*. 7, 147-153.

Misra, Siddharth & Eklavya Anand. (2018). Responsibility to Protect and the Global South: A Critical Perspective, *Journal of Law Teachers of India*. 7, 53-64.

Misra, Siddhartha. (2018). Enforcement of Copyright Law in India - A Road Half Traversed. In Ashutosh Mishra (ed.) *Copyright Protection - Evolving Perspectives and Dimensions*. 66-84, Delhi: VML Publications.

Misra, Siddhartha. (2019). Transition from Human Rights Commission to Human Rights Council- Whether the Successor Benefits the Predecessor. In VK Ahuja (ed.) *Human Rights - Contemporary Issues, Festschrift in Honour of Professor Upendra Baxi*. 615-642, Lucknow: Eastern Book Company.

Ranjan, Prabhash and Pushkar Anand. (2018). How 'Healthy' are the Investment Treaties of South Asian Countries: An Empirical Study of Public Health Provisions in South Asian Countries' BITs and FTA Investment Chapters. *ICSID Review – Foreign Investment Law Journal*. 33(2). 406-432.

Ranjan, Prabhash and Pushkar Anand. (2018, May 17). Vodafone versus India - BIT by BIT, International Arbitration becomes Clearer. *The Wire*. Retrieved from <https://thewire.in/business/vodafone-versus-india-bit-international-arbitration>.

Sharma, Alok. (2018). Dr. Ambedkar's role in legal empowerment of Indian women: with special reference to Hindu Code Bill. *Academia*. Vol. 2 No.1 Jan-June, 2017 at pp. 58-78.

Sharma, Alok. (2018). *Triple denial of Justice, Dignity and Equality*. New Delhi: India Policy Foundation.

#### **Journals published by the Centre – 01**

*Journal of Law Teachers of India*, Vol. 7, No. 1, 2016-17 (published in 2018).

#### **Conferences Organized**

International Conference on International Trade Law organized by Law Centre – I in collaboration with the Centre for WTO Studies, Indian Institute of Foreign Trade, New Delhi, from 21-23 February 2019, funded by University of Delhi, IIFT, Clarius Law Associate and Sh. Sidharth Luthra.

The guest speakers for the conference included Prof. Peter Van den Bosche, Member of the Appellate Body of the World Trade Organization, Geneva, and Prof. Robert Howse, Lloyd C. Nelson Professor of International Economic Law, New York University School of Law. The Conference also had dignitaries such as Prof. Abhijit Das, Head, Centre of WTO Studies, IIFT New Delhi.

#### **Seminar/Conference Presentations**

Devi, Daya

Chaired the Technical Session in the *International Conference on Emerging Trends and Transformation in Contemporary Society: A Global Futuristic Perspective* held at Amity Law School, Noida on 9<sup>th</sup> & 10<sup>th</sup> August, 2018.

Presented paper on "Maternity Benefits Act, 1961" in the *International Conference on Future of Work, Labour Policy and the Law*, organized by the Centre for Transparency and Accountability in Governance, National Law University, New Delhi on Nov. 17-18, 2018.

Presented paper on "Social Protection and Empowerment of Women Worker in India: Issues and Challenges" in *International Seminar on Protection of Women and Children Rights: Issues and Challenges*, organized by Law Mantra at The Indian Law Institute, New Delhi on Jan.12, 2019.

Dubey, Basuki Nath

Resource Person in 'Human Development in the 21st Century: Issues and challenges of multi sectoral approaches in Greater Noida IIMT College of Law, Greater Noida, Uttar Pradesh, March 30, 2019.

Kaur, Sarbjit

Delivered Lecture on “Amendments to the Constitution” in the Institute of Constitutional and Parliamentary Studies, Vithhalbhai Patel House, Rafi Marg, New Delhi on Sept. 15, 2018.

Kumari, Apeksha

Presented a paper on “Functioning of Child Welfare Committees vis-à-vis Child rights, An overview” in the *3<sup>rd</sup> National Conference on Human rights and Gender Justice*, 2018.

Pankaja P.B.

Resource Person in “Methods and Tools of Data Collection”- *Two-day National Workshop on Research Methodology*, at School of Law, Satyabhama Institute of Science and Technology. Mar. 7-8, 2019.

Raj, Megh

Presented a paper titled “Social Media and Youth Participation in Politics” in the *Seminar on Role of Social Media and Young Voters*, organized by India International Institute of Democracy and Election Management and National law University, Delhi at IIIDEM Campus, Delhi on Mar. 25, 2019.

Presented a paper “The Protection of Women at Workplace Act, 2013: Bridging the gap between law and implementation” in the *International Seminar on Protection of Women and Children Rights: Issues and Challenges*, organized by Law Mantra and The Indian Law Institute, Delhi on January 12, 2019.

Ratnabali, K.

Panelist in in the panel discussion on ‘New York Declaration and Global Compact on Refugees’ in the *Winter Course on Refugees and Migrants*, organized at Indian Society for International Law (ISIL), New Delhi, Jan. 5, 2019.

Spoke on 'Constitutional, legal and customary rights of tribal population' in a *Five day training programme (10 to 15 September 2018) on Social Impact Assessment and Resettlement and Rehabilitation designed for government officials, PSUs, corporates, practitioners and researchers*, organized at The Energy and Resource Institute (TERI), India Habitat Centre, Sept. 12, 2018.

Delivered talk on 'Constitutional, legal and customary rights of tribal vis-à-vis Their Land' in a *Five day training programme (2<sup>nd</sup> to 6<sup>th</sup> April 2018) on Social Impact Assessment and Resettlement and Rehabilitation designed for government officials, PSUs, corporates, practitioners and researchers*, conducted by The Energy and Resource Institute (TERI) at India Habitat Centre, April 5, 2018.

Sharma, Alok

Presented a paper titled “Arbitrary Implementation of Legal Provisions relating to Arrest: Violation of Rights” in the *National Conference on "Exploring Critical Perspectives in Criminal Law"* organized by the K.L. Arora Chair in Criminal Law and Centre for Criminology and Victimology at National Law University Delhi. June 18, 2018.

Delivered lecture on "Overview of Information Technology Act 2000, Its Amendments and Related Amendments in CrPC, IPC and Evidence Acts” in Training Session at CBI Academy, Ghaziabad on July 2, 2018.

Delivered lecture on "Overview of Information Technology Act 2000, Its Amendments and Related Amendments in CrPC, IPC and Evidence Acts” in Training Session at CBI Academy, Ghaziabad on Feb 9, 2019.

Delivered lecture on “Alternative Dispute Resolution” in the *Orientation Workshop/Training of Teachers (TOT) at Faculty of Law, University of Delhi*, Jan. 26-27, 2019; on "Overview of Information Technology Act 2000, Its Amendments and Related Amendments in CrPC, IPC and Evidence Acts” in Training Session at CBI Academy, Ghaziabad on Mar. 12, 2019.

Sinha, Anju

“Need for Reform in The Prison System with Regard to Women and Children” in *One Day International Seminar on Protection of Women and Children Rights: Issues and challenges* organized by Law Mantra on Jan. 12, 2019.

Tripathi, Vikesh Ram

Presented a paper titled “Role of WIPO in the Settlement of Domestic and Cross Boarder IP Disputes” in the *47<sup>th</sup> Annual Conference of The Indian Society of International Law*, organized at ISIL New Delhi, May 12-13, 2018.

Resource Person in the *National Conference on Law, Economics and Technology*, organized at Faculty of Law, University of Delhi, Delhi, November 16-17, 2018.

“Protection of Women Under IHL: A Critical Appraisal” in the *National Conference on International Humanitarian Law*, organized at VIPS New Delhi, Jan. 19, 2019.

“WTO Dispute Settlement System and Developing Countries: A critical Analysis” in the *International Conference on International Trade Law*, organized at LC-1, Faculty of Law, DU and Centre For WTO Studies, Indian Institute of Foreign Trade, New Delhi, 21-23 Feb. 2019.

Yadav, Shankar Singh

Presented a paper titled “E-commerce and Anti-competitive Business Practices affecting Fair Competition in Market: An Analysis” in the National Seminar on Consumer Protection in E-Commerce and Digital Era: Issues and Challenges, organised at Central University of Haryana, Mahendergarh, September 18, 2018.

Resource Person in National Seminar on Consumer Protection in E-Commerce and Digital Era: Issues and Challenges, at Central University of Haryana, Mahendergarh, 18 September 2018.

### **Extension and Outreach Activities**

Two-day art-exhibition ‘Astitva’ from 19<sup>th</sup> - 20<sup>th</sup> April, 2019 organized by Gender Sensitization Committee in order to sensitize people on gender related issues.

Awareness Drive cum Special Lecture on the Rights of Persons with Disability, on 16<sup>th</sup> February 2019 organized by Equal Opportunity Committee.

7<sup>th</sup> Outreach Programme at Shakti Nagar Under Bridge on 17<sup>th</sup> February 2019, more than 40 members of Legal Services Society participated.

8<sup>th</sup> Outreach (Mega) Programme at A Block Kirti Nagar, Delhi; more than 55 members of Legal Services Society participated.

60 PLVs visited at Society for Promotion of Youth and masses (SPYM) for spreading legal awareness among the juveniles on 26<sup>th</sup>- 28<sup>th</sup> February 2019.

### **Faculty Strength**

Permanent - 56

### **Other Significant Information**

Kaur, Sarabjit: Prepared teaching learning material and recorded video lecture (with e-text) on the topic *Grounds of Judicial Review of Administrative Actions – Expanding Horizons* as part of Refresher Course for Law Teachers on SWAYAM Portal in the category Contemporary Laws: Issues and Perspectives (2018). SWAYAM portal is operated under the aegis of Ministry of Human Resource Development (MHRD), Government of India. Link: <http://swayam.gov.in>.

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## LAW CENTRE-II

### Major Activities and Achievements

Law Centre II of the Faculty of Law has witnessed a flurry of academic, extracurricular and extension activities during 2018-19. Second LC-II SAMVAD Lecture Series was held which included an insightful talk on “Role of International Law Commission in the Codification and Progressive Development of International Law” by Dr. Aniruddha Rajput, International Law Commission, United Nations, on October 4, 2018. Students of Law Centre-II attended the ‘Pranab Sir ki Pathshala’ on April 13, 2018 at the India International Centre where they interacted with Sh. Pranab Mukherjee, former President of India who has initiated the same for staying connected with students and answer questions of the inquisitive youth. Law Centre-II organized a one-day Training Programme on Human Rights in collaboration with National Human Rights Commission on October 20, 2018. His Excellency Brigadier Dr. B. D. Mishra, Governor, State of Arunachal Pradesh was the Chief Guest for the Training Programme.

### Honours/Distinctions

Ms. Prerna Singh of the 2014-2017 batch of Law Centre-II was awarded the Hira Lal Daga Memorial Medal by University of Delhi and the University Law Union Prize at the 95th Annual Convocation of University of Delhi on November 19, 2018.

### Publications

Ahuja, V.K. (ed.) (2019). *Contemporary Issues - A Festschrift in the Honour of Professor Upendra Baxi*. Lucknow: Eastern Book Company.

Ahuja, V.K. (2019). Human Rights Approach to Intellectual Property Rights. In V.K. Ahuja (ed.) *Human Rights: Contemporary Issues - A Festschrift in the Honour of Professor Upendra Baxi*. 51-75. Lucknow: Eastern Book Company.

Deswal, V. (2018). Circumspect Judicial Incumbency. *MDU Law Journal*, XX, 49-61.

Gogoi, Jupi & Sinha, Manoj K. (2018). *Intellectual Property Rights and Human Rights with special reference to India* (eds.) New Delhi: ILI Publications.

Gogoi, Jupi. (2018). Promoting Human Rights through the Law of Geographical Indications: Mirage or a Reality. In Manoj K. Sinha & Jupi Gogoi (eds.) *Intellectual Property Rights and Human Rights with special reference to India*. 255-272. New Delhi: ILI Publications.

Gogoi, Jupi. (2018). Role of Geographical Indications in the Socio-Economic Development of Assam: A Critical Study. *Vidhijyoti*, II, 101-122.

Gupta, Kiran. (2018). Analytical Perspective towards Legal Research. In B.C. Nirmal *et al* (eds.) *Legal Research and Methodology: Perspectives, Process and Practice*. 73-82. New Delhi: Satyam Law International.

Hnamte, Irwin L. (2018). Protection of Traditional Cultural Expressions: Then and Now. *Journal of Contemporary Law*, I (1), 56-63.

Jha, Anupam. (2018). Paris Agreement and India: Dalliance or Serious Alliance? *Natural Resources and Environment* (American Bar Association Energy and Resources Section), 33 (2), 1-7.

Jha, Anupam & Gunpath, R.P. (2017). Round Tripping and Treaty Shopping: Controversies in Bilateral Agreements & Remedies Forward. *Kathmandu Sch. L. Rev*, 5, 29-42.

Naik, Balaji B.G. & Alexander, Atul. (2019). Torture Jurisprudence and the Work of Law Commission of India: A Human Rights Perspective. *International Journal of Legal Studies and Research*, 8(1), 159-166. Retrieved from [https://drive.google.com/file/d/1QiwkmMJ6jb\\_AZj7EmTdZbKyup10VtGsr/view](https://drive.google.com/file/d/1QiwkmMJ6jb_AZj7EmTdZbKyup10VtGsr/view)

Naseema P.K. (2018). Social Globalization and Introduction of New Legal Norms -A Study in the Light of the Triple *Talaq* Ordinance 2018. *The Delhi Journal of Contemporary Law Review*, 1, 48 -55.

Sonawane A. (2019). Role of United Nations and Indian Legal System for the Protection of Human Rights of Children. In V.K. Ahuja (ed.) *Human Rights – Contemporary Issues: A festschrift in the Honour of Professor of Upendra Baxi*. 428-442. Lucknow: Eastern Book Company.

Sonawane, A. (2018). The Denied Rights and Endangered Identities: Indian Approach Towards Rohingyas amidst Humanitarian Crisis, *Delhi Journal of Contemporary Law*, 72-77, retrieved from, <http://lc2.du.ac.in/DATA/Delhi%20Journal%20of%20Contemporary%20Law.pdf>

Soni, Kislay & Anand, Ashutosh Raj. (2019). Countervailing Disaster in the Era of Anthropocene. In S. Sivakumar, Manohar Thairani & Lisa P. Lukose (eds.) *Disaster Management Laws in SAARC Countries*. 21- 30. New Delhi: Mohan Law House.

Srivastava, AK. (2019). Multimodal Transport of Goods and Their Need of Insurance. *Journal of Humanities and Social Sciences*, Vol 24 (1), 67-74. Retrieved from [http://iosrjournals.org/iosr-jhss/pages/24\(1\)version2html](http://iosrjournals.org/iosr-jhss/pages/24(1)version2html)

Tiwari, Pramod (2018). The Role of Comparative Law in Contemporary World-A Study. *Law Review* (published by Jai Narayan P.G. College Lucknow), 38(1), 109-112.

Tiwari, Pramod (2018). Typological School of Criminology: Critical & Comparative Outlook. *Dehradun Law Review*, 10 (1), 331-339.

Upadhyay, Santosh (2019). Armed Conflict and the Environment. *Yearbook of International Environmental Law*, 28, 115-119.

Vashishtha, Archa & Ahuja, Parthvi. (2019). Protection of Human Rights of Sexual Minorities: Accepting the Unaccepted. In V.K. Ahuja (ed.) *Human Rights Contemporary Issues*. 212-234. Lucknow: Eastern Book Company.

Vashishtha, Archa. (2018). Incest: The Curtain Unfolded. In Arvind P. Bhanu (ed.) *Women and Law*. 145-154. New Delhi: Satyam Law International.

Wadhwa, Isha. (2018). Demystifying Exceptions and Limitations in Indian Copyright Law. In Manoj Kumar Sinha and Jupi Gogoi (eds.), *IPR and Human Rights with Special Emphasis in India*, 209-234. New Delhi: Indian Law Institute.

#### Newspaper and magazine

Deswal, V. (2018, Dec. 06). Harsher Sentencing of Juveniles - Have we failed our children. Times of India. Retrieved from <https://timesofindia.indiatimes.com/life-style/relationships/soul-curry/harsher-sentencing-of-juveniles-have-we-failed-our-children/articleshow/66966170.cms>

Deswal, V. (2018, Oct. 08). Me Too in India- Rhetoric versus reality. Times of India, Retrieved from <https://timesofindia.indiatimes.com/life-style/relationships/love-sex/metoo-in-india-rhetoric-versus-reality/articleshow/66117332.cms>

Deswal, V. (2019, Feb. 14). What has Law got to do with Love? Times of India. Retrieved from <https://timesofindia.indiatimes.com/blogs/legally-speaking/what-has-law-got-to-do-with-love/>

Deswal, V. (2019, Feb. 22). Corporal Punishments against Children and the Law. Times of India. Retrieved from <https://timesofindia.indiatimes.com/blogs/legally-speaking/corporal-punishment-against-children-and-the-law/>

Deswal, V. (2019, Feb. 8). Can you sue your parents for giving birth to you without your consent? Times of India. Retrieved from <https://timesofindia.indiatimes.com/blogs/legally-speaking/can-you-sue-your-parents-for-giving-birth-to-you-without-your-consent/>

Deswal, V. (2019, Jan. 28). Calling Wife Prostitute is grave provocation- Some Ruminations. Times of India. Retrieved from <https://timesofindia.indiatimes.com/blogs/legally-speaking/calling-wife-prostitute-is-grave-provocation-some-ruminations/>

Deswal, V. (2019, Jan.03). Are extra marital affairs legal in India? Times of India. Retrieved from <https://timesofindia.indiatimes.com/life-style/relationships/love-sex/are-extra-marital-affairs-legal-in-india/articleshow/67349869.cms>

Deswal, V. (2019, Jan.16). Can a man Rape his wife? Times of India. Retrieved from <https://timesofindia.indiatimes.com/blogs/legally-speaking/can-a-man-rape-his-wife/>

Deswal, V. (2019, Jan.19). Why Feminism is not the ‘F’ word? Times of India. Retrieved from <https://timesofindia.indiatimes.com/blogs/legally-speaking/why-feminism-is-not-the-f-word/>

Deswal, V. (2019, Jan.24). Legal Status of child marriages in India. Times of India. Retrieved from <https://timesofindia.indiatimes.com/blogs/legally-speaking/legal-status-of-child-marriages-in-india/>

Deswal, V. (2019, March 4). Decoding the dynamics of Live-in-relationships in India. Times of India. Retrieved from <https://timesofindia.indiatimes.com/blogs/legally-speaking/decoding-the-dynamics-of-live-in-relationships/>

Deswal, V. (2019, March 8). From right against arrest at night to right to say no- Every Indian woman should know these laws. Times of India. Retrieved from <https://timesofindia.indiatimes.com/life-style/relationships/love-sex/international-womens-day-2019-from-right-against-arrest-at-night-to-right-to-say-no-every-indian-woman-should-know-these-laws/articleshow/68301617.cms>

Kumar, Ashish. (2019, March 13). Opinion: Mediation in Ayodhya Dispute: Possibilities for Collaborative Resolution. Outlook. Retrieved from <https://www.outlookindia.com/website/story/india-news-mediation-in-ayodhya-dispute-possibilities-for-collaborative-resolution/326985>

### **Journals Published by the Centre- 02**

#### **Number of faculty serving as editors / members of editorial board**

Editor/Associate Editor – Two teachers in two journals

Member of Editorial Board – Four teacher in four journals

#### **Research Projects**

Department of Justice, Ministry of Law, Government of India, 2018-19, “Effectiveness of Mediation (ADR) in India: A Special Focus on Online Mediation and Mediation in Family Dispute, Consumer Redressal Dispute, Commercial Dispute, Intellectual Property Disputes, Dispute in Multi-National Companies”, Rs. 1200000. Faculties involved in the project: Dr. Ashutosh Mishra, Mr. Ashutosh Acharya

#### **Seminars Organized - 4**

Prof. (Dr.) Ved P. Nanda, University of Denver and Honorary Professor, University of Delhi shared his views in a seminar talk on International Women’s Day was organized by the Gender Sensitization Committee, on March 8, 2019.

Dr. Stelios Andreadakis, Senior Lecturer in Corporate and Financial Law and Director of Post Graduate Programmes at Brunel University, London, ‘Lecture on Brexit: To be or not to be (In the EU)?’, on February 27, 2019.

Shri Vinay Kumar Sanduja, Registrar, Indian Council of Arbitration, Shri Manas Kumar Chaudhuri, Partner, Khaitan and Co. Shri Munish K. Sharma, Practising Company Secretary and Insolvency Professional, National Seminar on Practical Approach to Competition Law and Insolvency and Bankruptcy Code, organized by Placement and Internship Committee, on February 26, 2019.

Ms. Swati Jaihind Maliwal, Chairperson, DCW, Seminar on Rehabilitation of Acid Attack Survivors: Problems and Challenges, organized by the Gender Sensitization Committee, on February 18, 2019.

Law Centre-II organized a Seminar on Section 377 of Indian Penal Code and the Roadmap Ahead at Umang Bhawan, Faculty of Law on September 19, 2018.

### **Conferences Organized**

Law Centre-II, in collaboration with Justice for Rights Foundation organized a Conference on Need for Police Reforms and Role of NHRC on August 24, 2018. The Conference was organized under the guidance of Justice Permod Kohli, Former Chief Justice, Sikkim High Court and Former Chairman, Central Administrative Tribunal.

The Centre organized a National Workshop on Legal Skills and Research on October 6, 2018 in collaboration with All India Law Students Federation. Hon'ble Justice Rajiv Shakdher, Delhi High Court was the Chief Guest and the Guest of Honour was Mr. Vikramjit Banerjee, Additional Solicitor General.

### **Seminar/Conference Presentations (National / International)**

Ahuja, V.K.

As resource person, delivered a talk on "Continuing Legal Education for Academics" at *National Conference on The Conundrum of Theory and Practice in Legal Education* organized by Bennett University, Greater NOIDA, February 16, 2019.

As resource person, delivered a talk on Right of Education of Blind and Visually Impaired Persons as Human Right with Special reference to Marrakesh Treaty in *One Day Basic Training Program on Human Rights*, organized by Shobhit University, Meerut in association with National Human Rights Commission (NHRC), New Delhi, December 22, 2018.

Delivered talk on "Copyright and Right to Education: Judgement Analysis of DU Photocopy Case" in *Expert Lecture Series – X on Insights into the Nuances of Intellectual Property Rights Law: Analyzing the Legal and Management Perspective*, organized by Unitedworld School of Law, Karnavati University, Gandhinagar, March 19, 2019.

Delitalk on "Intellectual Property Rights: An Overview" in *Expert Lecture Series – X on Insights into the Nuances of Intellectual Property Rights Law: Analyzing the Legal and Management Perspectives*, organized by Unitedworld School of Law, Karnavati University, Gandhinagar, March 18, 2019.

Chaired a session on *National Conference on International Humanitarian Law*, organized by Vivekanand Institute of Professional Studies, Delhi in collaboration with International Committee of Red Cross, January 19, 2019.

Chaired a session on Reservation for Economically Weaker Section (EWS) in *National Level Panel Discussion on "The 103rd Amendment Act: A Step Forward or a Cynical Fraud on the Constitution?"* at National University of Advanced Legal Studies, Kochi, March 7, 2019.

Delivered a lecture on "Jurisdictional Matters in IP Disputes" in *Induction Training Course for Civil Judge (Junior Division)*, Judicial Academy Jharkhand, Ranchi, April 15, 2018.

Chaired a session on "Origin and Development of the IPR Legal Regime" in *Orientation Programme on Intellectual Property Rights and Enforcement for the Officers of DHJS and DJS*, Delhi Judicial Academy, Dwarka, New Delhi, April 6, 2018.

Spoke on "Infringement of Trade Marks" at National Law University, Ranchi, April 16, 2018.

Spoke on "Intellectual Property Rights: An Overview" at Mata Sundri College (University of Delhi), March 5, 2019.

Spoke on “Intellectual Property Rights” at Central University of Kerala, March 8, 2019.

Spoke on “Patents and Public Health” at Llyod Law College, Greater NOIDA, March 24, 2019.

Spoke on “Infringement of Trade Marks and Passing Off” at *Seminar on Intellectual Property Rights Violations*, organized by Lok Nayak Jai Prakash National Institute of Criminology and Forensic Science (Ministry of Home Affairs, Government of India), Delhi, January 22, 2019.

Deswal, V.

Spoke on “Protection of Women against Sexual Harassment at Workplace Act, 2013” in a Refresher Course for Section Officers of Central Govt. organized by Haryana Institute of Public Administration Gurgaon on June 5, 2018.

Spoke on “Law relating to Sexual Harassment and Rape” in Faculty Development Program organized by Faculty Development Centre, Hansraj College, DU on Dec. 24, 2018.

Spoke in two days National Seminar on Revisiting Baba Saheb Dr. BR Ambedkar on the occasion of Constitution Day at CDL University, Sirsa, Haryana on Nov. 26, 2018.

As resource person delivered a lecture on “Criminal Laws Amendment Act, 2013” in 5-day Workshop on Contemporary Developments in Law relating to Violence and Discrimination against Women organized by Human Rights Law Network at Goa from June 19-24, 2018.

Delivered a lecture on “Gender Based Discrimination at Workplace” in legal awareness program organized by Divisional Training Centre, Haryana Institute of Public Administration, Rohtak in collaboration with Rajiv Gandhi National Institute of Youth Development Chennai on April 10, 2018.

Delivered a lecture on “Foster care in India” in *International Conference on Alternative Care for Children*, organized by Martin James Foundation, Birmingham at Bangkok from March 13-14 March, 2019.

Resource person, delivered a lecture on “Laws for Women in India” in *International Workshop on Global Feminism: Contexts and Contestations*, organized by Women’s studies department of University of Wisconsin- Eau Claire, USA in collaboration with Indian Institute of Dalit Studies and WSDC DU on January 10, 2019.

As resource person delivered a lecture on “General Principles of Criminal law” (Jan. 15 Jan, 2019) and “Sexual Harassment of Women” (Jan. 18 Jan, 2019) in *National Level Foundation Course for ITS officers* organized by HIPA, Gurugram from 17 Dec. 2018 – 29 March 2019.

As resource person delivered a lecture on “Legal Awareness for Girls” in *NSS program* organized by Govt College for Girls, Sector-14 Gurgaon, on March 19, 2019.

Spoke in *MHRD & UGC sponsored Refresher Course* on Gender Sensitization organized by HRDC, BPSMV Khanpur on March 28, 2019.

Kumar, Ashish

Delivered an interactive presentation on “Handling of Arbitration Proceedings as Clamant/Respondent” in a National Workshop for Government/PSUs Officials, organized by National Academy of Human Resource Development (NAHRD)- a resource institute of Ministry of Women & Child Development, Government of India on October 26, 2018.

Presented a paper titled “Confluence of Competition and Trade Issues” in *International Conference on International Trade Law* organized by LC-I, Faculty of Law, DU in collaboration with Centre for WTO Studies, Indian Institute of Foreign Trade, New Delhi, on Feb. 21-23, 2019.

Naik, Balaji B.G.



Presented research paper titled “India's Growing Respect for International Law: A Chronology of Recent Developments” in the 47<sup>th</sup> *Annual Conference on International Law*, organized at/by Indian Society of International Law, New Delhi, on May 12-13, 2018.

Delivered a talk in panel discussion on “New York Declaration and Global Compact Refugees” in the *Winter Course on International Migration and Refugee Law*, conducted by the Indian Society of International Law, New Delhi on January 5, 2019.

Naseema, P.K.

Presented paper on “When Age Alone Decides The Offence Of Rape- An Introspection in the Light of Pocso Act & JJ Act” in the National seminar on Criminal Justice in India conducted by VIT University, Chennai on September 29, 2018.

Presented a paper titled “Advaita Vedanta –As a Tool for Democratic Revival of Social justice at Modern Times” in Two-Day National Seminar on Phenomenology of mind and Consciousness: Indian & Western perspective, organized by the Department of Philosophy, University of Madras, Chennai sponsored by ICPR (Delhi) on November 14-15, 2018.

Presented a paper titled “Gender Equality In Islam: Introspection” in the National Seminar on the theme Islam & Contemporary Legal Issues in India, organized by Council on Legal Studies, New Delhi in association with Faculty of Law, Jamia Millia Islamia, New Delhi on September 22-23, 2018.

Presented a paper titled “Role of Women in Sustainable Business Development –Constraints, Reasons and Solutions” in the 9th International Women and Business Conference on Business Empowerment of Women and Sustainability, organized by National Law University Delhi, New Delhi on October 24-26, 2018.

Presented (In absentia) a paper titled “Law, Equity and Social Change –An Introspection” in Two-Day *International Seminar on Social Equity: A Catalyst To Inclusive Growth And Sustainability*, organized by PG Department of Banking & Insurance Management & Department of Bank Management, Ethiraj College for Women (Autonomous) from January 30- 31, 2019.

Sharma, Anjay

Presented paper The International Criminal Law: Conception Classification and Jurisdiction in the 47th Annual Conference of ISIL organized by Indian Society of International Law, New Delhi on May 12-13, 2018.

Presented paper Decoding the Meaning and Law applicable during NIACs in the *National Conference on International Humanitarian Law*, organized at/by VIPS in collaboration with ICRC on January 19, 2019.

Presented paper Notion of Federation on India and Australia- A comparative Study in an *International Conference on Comparative Constitutional Law* organized at/by Amity University Nodia U.P. on February 14-15, 2019.

Sonawane Ajay

Presented paper , Rights of Children and Susceptibility of Child Labour- Human Rights Perspective in *One Day International Seminar on Protection of Women and Children Rights : Issues and Challenges*, organized by Law Mantra in collaboration with ILI, RGNUL, Punjab, NLUJA, Assam, MNLU, Nagpur, MNLU, Aurangabad, DCPCR, GOI at the Indian Law Institute, New Delhi on January 12, 2019.

Upadhyay, Santosh

Presented paper Discussing Applicability of the Law of Occupation to the UN Transitional Administration at the *National Conference on International Humanitarian Law: Celebrating 70<sup>th</sup> Anniversary of Geneva Conventions 1949*, organized by VIPS, Delhi and ICRC, Regional Delegation, Delhi on January 19, 2019.

## **Extension and Outreach Activities**

During 2018-19, Law Centre-II has conducted a number of extension and outreach activities as provided below:

A Women Safety Workshop and Book Launch of Women Safety Manual was organized at LC-II on April 11, 2018.

Legal Aid Camp organized on April 20, 2018 to create awareness among the people of Burari. Around 7-8 cases were examined.

To lend a supporting hand to the people of Kerala organized a donation drive on August 28, 2018.

The Centre organized a Blood Donation Camp on NSS Day on September 24, 2018. Programme was organized in collaboration with Ram Manohar Lohiya Hospital and Blood Connect Foundation (NGO), New Delhi.

On 7th February 2019, NSS society organised a talk on health awareness as series of 3 lectures on health topics ranging from CPR to organ donation. to Cancer Prevention in women.

Students from Law Centre-II with faculty member Mr. Ashutosh Srivastava made a visit to the Mandoli Jail on March 14, 2019.

LC II NSS Committee with the help of North Delhi Municipal Corporation organized Swacchta Pakhwada on January 05, 2019.

150 students were selected as PLV and a 2-Day Training Program was conducted by DSLSA on November 2-3, 2018 at Moot Court Hall, Umang Bhawan.

Anganwadi Project - was launched by DSLSA on August 12-15, 2018 and students participated.

Door to Door Campaign- This was a Major Campaign which was organized by DSLSA from November 15-24, 2018. 24 PLVs participated. The Campaign's objective was to reach masses and conduct survey on various legal issues faced locally.

Traffic Awareness Drive- to celebrate National Pollution Control Day, 20 PLVs along with Delhi Traffic Police spread Awareness among commuters at traffic intersection Rajpath, India Gate, New Delhi on December 3, 2018.

## **Faculty Strength**

Permanent - 46

Guest - 13

## **Other Significant Information**

Students of the Centre bagged prizes in several Moot Court Competitions organized during this period.

Dr. Vageshwari Deswal, Assistant Professor (Senior Scale), LC-II, during 2018-19 has been frequently invited as a law expert in various TV Programs.

Prof. (Dr.) H. C. Cristoph Stuckelberger, President and Founder of Globethics.net from Geneva, Switzerland visited Law Centre-II, Faculty of Law, University of Delhi and interacted with the teachers on "Ethics in Higher Education" on November 19, 2018.

In 2<sup>nd</sup> SAMVAD Lecture Series 2018, Shri Govind Gaiha, Senior Advisor, Telecom Regulatory and Former Member, TDSAT and Shri Ilam Chand Kamboj, Registered Insolvency Professional and Former Associate Vice-President, Legal and CS at Hero Motor Corp Ltd. interacted with the students on November 15, 2018 while Dr. Rajesh Gupta, Advocate, Delhi High Court interacted on March 14, 2019.

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## FACULTY OF MANAGEMENT STUDIES

### Major activities and achievements

FMS continues to draw faculty members from world's finest institutions and with diverse work experiences. The past decades have witnessed a significant growth in the nature and number of programmes offered at FMS. FMS has exchange programmes and collaborative arrangements with leading business houses, management institutions and professional associations in India and abroad. In appreciation of its contributions, the Industrial Finance Corporation of India and Amway Corporation has created Chair Professorships in Industrial Management and Entrepreneurial Development respectively. Shanti Prasad Jain Advanced Management Research Center as a research and development wing of FMS has been set up at the University of Delhi, South Campus with assistance from Bennett Coleman & Company Limited.

FMS has the unique privilege of being a part of one of the premier universities of the world - the University of Delhi - with some of the finest departments of Economics, Law, Sociology, Psychology, Anthropology, Commerce and Operations Research. Our collaborative approach involves inputs from various departments that give the benefit of a much wider view and deeper understanding of the concepts as well as the context. The institute over the years has gained prominence for its learned faculty and students who today occupy coveted positions in the corporate world, both in India and abroad. Our frequent industry interactions, strong industry interface and mentor-ship programmes consistently add to knowledge of the relevant tools and enhance the ability to decisively think through problems and opportunities. Our excellent placement record, over the years, only reiterates the fact that at FMS pursuit of excellence, striving for perfection and relentless perseverance are the cornerstones of our rich cultural legacy.

### Publications

Banerjee, S., Bansal, S., and Gupta, G. (2018), 'After Sales Services and Consumer Satisfaction: Insights from Conjoint Analysis', *Indian Journal of Economics and Business* (Serial Publications, ABDC listed), 17, 4, pp. 225-235.

Gupta, G. and Aggarwal, S. (2018), 'Complaint Handling and Shoppers' Response Outcomes: An Investigation in the Context of Online Retail', *Review of Professional Management NDIM* -New Delhi Institute of Management (ISSN: 0972-8686), 16, 2 (July-December), pp. 25-35.

Nagpal, S. and Gupta, G. (2018), 'Green Dimensions, Environment Orientation and Size: Impact Assessment on Operational Performance of Manufacturing Firms', *Management Perspective* (IILM Graduate Business School, Noida), 4.

Tanwar, R. and Gupta, G. (2018), 'Online Brand Trust: An Antecedent-Consequence Framework', *SJCC Management Research Review* - St. Joseph College of Commerce, Bangalore (ISSN: 2249-4359), Vol. 8, No.2 (December), pp. 50-62.

Srivastava, M. and Gupta, G. (2018), 'Drivers of Green Adoption: Synthesizing the Organisational and Consumer Perspective', *JIMQUEST Journal of Management and Technology*, Vol. 14, No. 2 (July-December), pp. 38-43.

### Journals

Singla, M.L. and Apeksha Hooda. (2018) "Value Chain Development for Government Sector: A SAP-LAP Approach", in Kar A., Sinha S., Gupta M. (eds) *Digital India. Advances in Theory and Practice of Emerging Markets*. Springer, Cham.

### Seminars

Gupta, G. and Srivastava, M. (2018), 'Facilitators and Inhibitors of Green Adoption: Understanding the Demand and Supply Side Factors', *National Conference*, CPJ College of Higher Studies and School of Law, 16<sup>th</sup> November, 2018.

Gupta, G. and Rajput, S. (2018), 'CSR in Marketing: The New Era of Responsible Marketing', *International Conference on Envisioning India 2.0-Economic Policies- Prospects & Challenges*, December 1, Jaipuria Institute of Management, Indirapuram, Ghaziabad.

Gupta, G. (2018), 'Service Quality, Failures and Recovery: Impact Analysis of Customers' Response for Select Services', *ICQRITBO' 2018*, December, Department of Operations Research, University of Delhi.

Gupta, G. and Singharia, K. (2019), 'Customer Engagement: Exploring the Construct in the Digital Era', *Global Leadership Research Conference (GLRC-2019)*, 27-28th February, 2019, Amity Business School, Amity University, Noida.

Gupta, G. and Chauhan, S. (2019), 'Embracing New Digital Media for CSR Communication: Understanding the Role and Effectiveness', *International Conference on Business and Management on the theme 'Disruptions in Business- Embracing the Age of Digitalization'*, March 29-30, 2019, Delhi School of Management, Delhi Technological University, Delhi.

### **National/International MoUs Signed**

National MoU– CAT- 2018

### **Placement Details (Number and percentage of student placed)**

Number and percentage of students placed: 198 & 100%

Number of Companies visited for campus recruitment: 68

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

Ph.D. - 18

**Faculty Strength - 22**

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## **FACULTY OF MATHEMATICAL SCIENCES**

### **COMPUTER SCIENCE**

#### **Major Activities and Achievements**

The Department of Computer Science offers two post graduate Degree Programmes-MCA & M.Sc. Computer Science. The Department started 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. In all 67 jobs offers were received for MCA and M.Sc. students. Reputed software companies like Amazon, National Instruments, Direct, SumoLogic, Morgan Stanley, Nagarro, Thorogood, Accolite, Aristocrat participated in campus placement process. Minimum and maximum salary packages were Rs. 5.1 LPA and Rs.28.75 LPA. At present the department has about 50 Ph.D. students and 4(four) have been awarded degrees in the year 2018-19. 20 MSc research projects were undertaken, some of which are in different stages of publications. Fourteenth edition of the Annual Technical Fest "SANKALAN" Organized by the students of the Department of Computer Science.

#### **Publications**

Agarwal et al.(2018). Discovering pareto-optimal process models: a comparison of MOEA techniques. In *Proceedings of the Genetic and Evolutionary Computation Conference Companion* (pp. 286-287). ACM.

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- Chatterjee et al. (2019). Identification of brain regions associated with working memory deficit in schizophrenia. *F1000Research*; 8 (124).
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- Duari, S., & Bhatnagar, V. (2019). sCAKE: Semantic Connectivity Aware Keyword Extraction. *Information Sciences*, 477, 100-117.
- Gautam, A., & Bedi, P. (2019). FS-CARS: fast and scalable context-aware news recommender system using tensor factorization. *International Journal of Computational Science and Engineering*, 18(2), 118-129.
- Grover et al. (2018). Improved Local Search Based Approximation Algorithm for Hard Uniform Capacitated k-Median Problem. *Informatica*, 42(3).
- Gupta, N., & Bedi, P. (2018, September). *E-waste Management Using Blockchain based Smart Contracts*. In 2018 *International Conference on Advances in Computing, Communications and Informatics (ICACCI)* (pp. 915-921). IEEE.
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- Kundu et al. (2019). MOEA for Discovering Pareto-optimal Process Models: An Experimental Comparison. *Journal of Computational Science and Engineering*.
- Puri et al. (2018). *Concept Drift Based Analysis of Climatic Impact on Design of Green Buildings*. In *Urbanization Challenges in Emerging Economies: Resilience and Sustainability of Infrastructure* (pp. 113-120). Reston, VA: American Society of Civil Engineers.
- Saxena et al. (2019). Identifying similar networks using structural hierarchy. *Physica A: Statistical Mechanics and its Applications*, 121029.
- Saxena et al. (2018). Social centrality using network hierarchy and community structure. *Data Mining and Knowledge Discovery*, 32(5), 1421-1443.
- Sharma, C., & Bedi, P. (2018). Community based hashtag recommender system (CHRS) for twitter. *Journal of Intelligent & Fuzzy Systems*, 34(3), 1511-1519.
- Singhal, A., & Bedi, P. (2018, September). Blind Quantitative Steganalysis using SVD Features. In 2018 *International Conference on Advances in Computing, Communications and Informatics (ICACCI)* (pp. 369-374). IEEE.
- Taneja, S. and Kumar N. (2018). *Python Programming: A Modular Approach. With Graphics, Database, Mobile, and Web Applications*. Pearson. ISBN 9789332585348.

### **Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board**

Associate Editor: one teacher in one international journal.

### **Seminar/Conference Presentations**

Lead Panelist, on Theme “Building Blocks for Skills and Competitiveness- Skill-sets for coping with Artificial Intelligence and Skills for Digital India”, Idea Conclave on Collaging Futuristic Skills Landscape for New India, A Development Professionals Meet 2019, Govind Ballabh Pant Social Science Institute, Prayagraj, India, March 7-8, 2019.

Recommender Systems and Blockchain Technology, National Workshop on Artificial Intelligence (AI) in Agriculture: Status and Prospects, NASC Complex, IARI, New Delhi, July 30-31, 2018.

### **International MoUs Signed**

University of Aizu, Japan

Epitech, European Institute of Information Technology (Le Kremlin Bicetre, France) (in process)

### **Placement Details (Number and percentage of students placed)**

Number and percentage of students placed: 43 students

Number of Companies visited for campus recruitment: 18

### **Extension and Outreach Activities**

Faculty Development Programme on "Network Science: Foundation of Social Network Analysis" 03-12-2018 to 08-12-2018.

Workshop on "Internet of Things" organized by IEEE Delhi Section, 07-09-2018.

Workshop on "Save Water", 20-04-2018

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

Ph.D. – 4

### **Faculty Strength**

Permanent – 6

Ad-hoc – 6

### **Other Significant Information**

Students of the Department of Computer Science launched the Eighth edition of the magazine ‘SRIJAN’ both online and in print in the Fourteenth year of Sankalan.

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## **MATHEMATICS**

### **Major Activities and Achievements**

The Department of Mathematics is ranked 156 in Asia in the Times Higher Education Rankings 2019 and 10<sup>th</sup> in QS World University Ranking in India. The faculty members have published around 58 research papers in journals of international repute during 2018-19. A co-edited book *Generalized Nash Equilibrium Problems, Bilevel Programming and MPEC* has also been published during this period. Department organised 33<sup>rd</sup> Annual Conference of the Ramanujan mathematical Society in June 2018. 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. Department organised Pre-Entrance Summer School in Mathematics in June 2018.

### Honours/Distinctions

Prof.Dinesh Singh delivered a public lecture on Reforming India's Education System which was presided by former President of India, Shri Pranab Mukherjee at SGT University on March 27, 2019.

Prof. Ajay Kumar, Chancellor's nominee for Kumaun University.

### Publications

Ambethkar et al. (2018). Numerical study of coupled fluid flow and heat transfer in a rectangular domain at moderate Reynolds numbers using the control volume method. *International Journal of Industrial Mathematics*, 10(4), 397-410.

Antony et al. (2019). Operator space tensor products and inductive limits. *Journal of Mathematical Analysis and Applications*, 470(1), 235-250.

Arendt et al. (2018). Asymptotic behavior of the powers of composition operators on Banach spaces of holomorphic functions. *Indiana University Mathematical Journal*, 67(4), 1571-1595.

Aussel et al. (2018). Generalized Nash Equilibrium Problems, *Bilevel Programming and MPEC*, Springer,

Bajargaan et al. (2018). Self similar flow behind an exponential shock wave in a self-gravitating, rotating axisymmetric dusty gas with heat conduction and radiation heat flux. *Indian Journal of Physics*, 92(9), 1119-1135.

Bohra et al. (2018). Radii problems for normalized Bessel functions of first kind. *Computational Methods and Function Theory*, 18(1), 99-123.

Bansal et al. (2019). Hardy's theorem for Gabor transform. *Journal of Australian Mathematical Society*, 106(2), 143-159.

Crespi et al. (2018). Pointwise and global well-posedness in set optimization: A direct approach. *Annals of Operations Research*, 269(1-2), 149-166.

Das, P., & Das. T. (2019). A note on measure and expansiveness on uniform spaces, *Applied General Topology* 20(1), 19-31

Das et al. (2019). Measure expansivity and specification for pointwise dynamics, *Bulletin Brazilian Mathematical Society*, DOI:10.1007/s00574-019-00134-3

Das et al. (2019). Sensitivity, property P and uniform entropy. *Asian-European Journal of Mathematics*, 12(1), Article no. 1950002, 8 pages.

Das et al. (2018). Bowen's decomposition theorem for topologically Anosov homeomorphisms on noncompact and non-metrizable spaces. *Communications of the Korean Mathematical Society*, 33(1), 337-344.

Deepshikha, Vashisht & L. (2018). On weaving frames. *Houston Journal of Mathematics*, 44(3), 887-915.

Deepshikha, Vashisht & L. (2018). Weaving K-frames in Hilbert spaces. *Results in Mathematics*, 73(2), 1-20.

Deepshikha, Vashisht & L. (2018). Vector-valued (super) weaving frames. *Journal of Geometry and Physics*, 134, 48-57.

Garg et al. (2018), Transitivity of maps on  $G$ -spaces. *Advances in Pure & Applied Mathematics*, 9(2), 75-83.

- Gupta et al. (2018). On closed Lie ideals of certain tensor products of  $C^*$ -algebras. *Mathematische Nachrichten*, 291(8-9), 1297-1309.
- Jyoti, Vashisht & L.K. (2018).  $K$ -Matrix-valued Wave Packet Frames in  $L^2(\mathbb{R}^d, \mathbb{C}^s \times \mathbb{R})$ . *Mathematical Physics Analysis and Geometry*, 21(3), Article 21.
- Jyoti et al. (2018). Sums of Matrix-Valued Wave Packet Frames in  $L^2(\mathbb{R}^d, \mathbb{C}^s \times \mathbb{R})$ , *Glasnik Matematički*, 53(1), 153-177.
- Kapoor et al. (2019), A strict constraint qualification in vector optimization, *Indian Journal of Industrial and Applied Mathematics*, 10(1), 109-120.
- Kapoor et al. (2019). Stability and scalarization for a unified vector optimization problem. *Journal of Optimization Theory and Applications*, <https://doi.org/10.1007/s10957-019-01514-x>.
- Kapoor et al. (2019). Stability in unified semi-infinite vector optimization, *Journal of Global Optimization*, <https://doi.org/10.1007/s10898-019-00761-6>.
- Karuna, Lalitha & C.S. (2019). External and internal stability in set optimization. *Optimization*, 68(4), 833-852.
- Karuna, Lalitha & C.S. (2018). Continuity of approximate weak efficient solution set map in parametric set optimization. *Journal of Nonlinear and Convex Analysis*, 19(7), 1247-1262.
- Khushboo, Lalitha & C.S. (2019). Scalarizations for a set optimization problem using generalized oriented distance function, *Positivity*: [10.1007/s11117-019-00659-3](https://doi.org/10.1007/s11117-019-00659-3).
- Khushboo, Lalitha & C.S. (2019). A unified minimal solution in set optimization. *Journal of Global Optimization*, 74(1), 195-211.
- Khushboo, Lalitha & C.S. (2018), Scalarizations for a unified vector optimization problem based on order representing and order preserving properties. *Journal of Global Optimization*, 70(4), 903-916.
- Kumar et al. (2019). Supercyclic  $C_0$ -semigroups, stability and somewhere dense orbits, *Journal of Mathematical Analysis and Applications*, 476(2), 539-548.
- Kumar et al. (2018). Convergence of powers of composition operators on certain spaces of holomorphic functions defined on the right half plane. *Archiv der Mathematik*, 110(5), 487-500.
- Kumar et al. (2018). Delta-extension of rings and invariance properties of ring extension under group action. *Journal of Algebra and its Applications*, 17(12), 1850239.
- Kumar et al. (2018). A Corrigendum to "Hereditary properties between a ring and its maximal subrings", *Ukrainian Mathematical Journal*, 17(4), 583-584.
- Kumar et al. (2018). On  $\lambda$ -extension of commutative rings. *Journal of Algebra and its Applications*, 17(4), 1850063.
- Kumar et al. (2019). The solvability and controllability of semi linear coupled wave equation. *International Journal of Applied and Computational Mathematics*, 5(2), 5-30.
- Kumar S. (2018). Approximate controllability of second-order impulsive stochastic differential system with nonlocal conditions. *Nonlinear Studies*, 25(2), 301-313.
- Kumar et al. (2019). Lie symmetry analysis, complex and singular solutions of  $(2+1)$ -dimensional combined MCBS–nMCBS equation. *International Journal of Dynamical Control*, 7(2), 496--509.
- Kumar et al. (2019). Solitary wave solutions of  $(3+1)$ -dimensional extended Zakharov–Kuznetsov equation by Lie symmetry approach. *Computers and Mathematics with Applications*, 77(8), 2096-2113.



- Kumar et al. (2019). Chaotic behavior of predator-prey model with group defense and non-linear harvesting in prey. *Chaos Solitons Fractals*, 119, 19-28.
- Kumar et al. (2018). Symmetry analysis and some new exact solutions of Born-Infeld equation. *International Journal of Geometrical Methods in Modern Physics*, 15(11), 1850183, 13 pp.
- Kumar et al. (2018). Symmetry analysis and invariant solutions of  $(3+1)$  -dimensional Kadomtsev-Petviashvili equation. *International Journal of Geometrical Methods in Modern Physics*, 15(8), 1850125, 19 pp.
- Lata et al. (2018). A class of sub-Hardy Hilbert spaces associated with weight shifts. *Houston Journal of Mathematics*, 44(1), 301-308.
- Luthra et al. (2018). Polynomials in operator space theory: Matrix ordering and algebraic aspects. *Positivity*, 22(2), 629-652.
- Luthra et al. (2018). Nuclearity properties and  $C^*$ -envelopes of operator system inductive limits. *Journal of Korean Mathematical Society*, 55(5), 1045-1061.
- Madaan et al. (2019). Starlikeness associated with lemniscate of Bernoulli. To appear in *FILOMAT*.
- Patel et al. (2018). Exact solution of shock-wave structure in a non-ideal gas under constant and variable coefficient of viscosity and heat-conductivity. *Shock Wave*, doi.org/10.1007/s00193-018-0855-8
- Patel et al. (2018). Dark and kink soliton solution of generalized ZKBBM equation by iterative scheme. *Chinese Journal of Physics*, 56, 819-829.
- Rastogi et al. (2019). Non-analytic growth bounds and delay semigroups. *Semigroup Forum*, <http://link.springer.com/article/10.1007/s00233-019-10010-7>.
- Salman et al. (2018). Multi-sensitivity and other stronger forms of sensitivity in non-autonomous discrete systems. *Chaos Solitons & Fractals*, 115, 341-348.
- Sharma et al. (2018). Non-reduced rings of small order and their maximal graph. *Journal of Algebra and Related Topics*, 6(1), 35-44.
- Sharma et al. (2018). When the maximal graph is planar, outerplanar and ring graph. *Discrete Mathematics, Algorithms and Applications*, 10(3), 1850032.
- Singh et al. (2019). Indices of a finitistic space with mod 2 cohomology  $\mathbb{R}p^n \times S^2$ . *Indian Journal of Pure of Applied Mathematics*, 50(1), 23-34.
- Singh, H.K., & Singh, S.K. (2018). Parametrized Borsuk-Ulam theorems for free involutions on  $FP^m \times S^3$ . *Topology and its Applications*, 241(1), 20-37.
- Singh et al. (2018). Borsuk-Ulam Theorems and their parametrized versions for  $FP^m \times S^3$ . *Bulletin of Brazillian Mathematical Society (New Series)*, 49(1), 179-197.
- Singh et al. (2018). Free actions of finite groups on spaces of cohomology type  $(0, b)$ . *Glasgow Mathematical Journal*, 60(3), 673-680.
- Singh et al. (2018). The set of balanced points of maps on cohomology Lens spaces. *Houston Journal of Mathematics*, 44(3), 1051-1061.
- Thakur et al. (2019). Devaney chaos and stronger forms of sensitivity on the product of semiflows. *Semigroup Forum*, 98(3), 631-644.
- Vashisht et al. (2018). On generalized weaving frames in Hilbert spaces. *Rocky Mountain Journal of Mathematics*, 48(2), 661-685.

Vasisht et al. (2018). Furstenberg families and transitivity in non-autonomous systems. *Asian-European Journal of Mathematics*, doi.org/10.1142/ S1793557120500291.

Vasisht et al. (2018). On stronger forms of sensitivity in non-autonomous systems. *Taiwanese Journal of Mathematics*, 22(5), 1139-1159.

### **Journal**

Lalit Kumar is in the editorial board of Journal of Global Research in Mathematical Archives.

### **Research Projects**

DST-SERB (MATRICS Scheme), 2019-21, *On Some Ring Extensions*, Rs. 6,60,000/-

DST-SERB (MATRIC scheme) project, 2018-20, *Scalarization Aspects in Vector and Set Optimization*, Rs. 6,60,000/-

DST-SERB (MATRICS Scheme), 2018-21, *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/-

DST-SERB (EMR Scheme), 2018-21, *Index of Finitistic Spaces and Transformation Groups on Projective Space*, Rs 17,51,970/-

### **Seminars Organised**

#### **Total number of seminar - 4**

Research Scholar Seminar, December 28, 2018.

Workshop on Mathematical Biology, April 23, 2018.

Prof. Radha Kessar (IWM), City University of London on *Local structures and representation of finite groups* on August 17, 2018.

Prof. Higinio Ramos, University of Salamanca, Spain delivered a talk on *A new look at Runge-Kutta collocation methods* on June 27, 2018.

### **Conferences Organised**

The 33rd Annual Conference of Ramanujan Mathematical Society, June 1-3, 2018

International Meet on Analysis, November 24, 2018.

### **Seminar/Conference Presentations**

#### **Dinesh Singh**

Attended a meeting of the Search Committee, as a nominee of the Government of Rajasthan, for selecting a panel of names for the position of Vice Chancellor of Rajasthan Technical University Kota on February 19, 2019 and April 22, 2019.

Chief Guest and delivered Inaugural Lecture at the International Conference on Gravitation Cosmology and Mathematical Physics, GLA University, Mathura.

Chief guest at Inaugural Function of National Faculty Development Programme, South Campus, University of Delhi.

Invited by the CAG to speak as a panelist on a Seminar on Higher Education held at Jaipur on February 18, 2019.

Gaur, Atul delivered a talk on *Minimal Ring Extensions,  $\lambda$ -extensions, and Delta-Extensions of Rings* in the conference on “Mathematical Sciences and Development” organized by Institute of Basic Sciences, Dr. B.R. Ambedkar University, Agra during December 22-24, 2018.

Kumar, Ajay

Delivered an invited talk on *Operator Spaces and Operator System Tensor Products*, 84<sup>th</sup> Annual Conference of Indian Mathematical Society, Shri Mata Vaishno Devi University during November, 27-30, 2018.

Delivered an invited talk on *Uncertainty Principles on Locally Compact Groups*, International Conference on Banach Algebras, Harmonic Analysis, and Operator Theory, Sardar Patel University during November 20-22, 2018.

Lalitha, C.S.

Delivered a lecture as Mentor/Resource person at DST INSPIRE Science Camp, Daulat Ram College, University of Delhi on *Puzzles in Mathematics*, December 21, 2018.

Delivered a lecture on Mathematics in Medicine, in 7th National Conference on Mathematics Education, National Council of Educational Research and Training on December 22, 2018.

Delivered a lecture on Convex sets in Finite and infinite Dimensional Spaces, A National Conference on Recent Trends in Mathematics, Department of Mathematics and Astronomy, University of Lucknow, Lucknow during November 11-12, 2018.

Ranjana Jain delivered an invited talk on Ideals vs Lie Ideals in Banach Algebras in Annual Conference of Ramanujan Mathematical Society at University of Delhi, June 1-3, 2018.

Delivered a lecture on *Mathematics in Medicine* in the Faculty Development Programme on “Advancement in Integrated Sciences: Learning & Adaptation for Effective Teaching & Research, Shyam Lal College, December 11, 2018.

Delivered two lectures on *Introduction to Vector Optimization*, in the Refresher Course in Mathematics & Statistics, UGC-Human Resource Development Centre, Pondicherry University, on September 15, 2018.

Delivered two lectures on *Introduction to Vector Optimization*, in the Refresher Course in Computational & Mathematical Studies UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi on September 1, 2018.

Delivered a lecture on *Fun in Mathematics*, in the Orientation Programme (OR-93), Centre for Professional Development in Higher Education, University of Delhi on August 16, 2018.

Delivered a lecture on *Puzzles in Mathematics*, in the Orientation Programme (OR-92), Centre for Professional Development in Higher Education, University of Delhi on June 20, 2018.

Delivered a lecture on *Mathematics in Machine Learning* at Shaheed Rajguru College of Applied Sciences, University of Delhi on March 27, 2019.

Delivered a lecture on *Mathematics in Machine Learning* at Indraprastha College for Women, University of Delhi on March 26, 2019.

Delivered a lecture on *Mathematics in Medicine* in the inaugural ceremony of 'Abscissa 2019', the Mathematics Festival of Maitreyi College, University of Delhi on March 12, 2019.

Delivered a lecture on *Convex Optimization and Its Application* in 3rd International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA-2019), Department of Mathematics, Jaypee Institute of Information Technology, Noida during January 17-19, 2019.

### **Other Inter-Institutional Collaboration**

Eight faculty members collaborated with other universities including University of California, Berkeley, Shiv Nadar University, Uttar Pradesh, India, Maharaja Sayajirao University of Baroda, Gujarat, India, . Didier Aussel, University of Perpignan, France and Giovanni Paolo Crespi, University of Insubria, Italy, Wolfgang Arendt, Institute of Applied Analysis, University of Ulm, Germany and Chalendar, I., Institut Camille Jordan, France, Prince Mohammad Bin Fahd University, Saudi Arabia and Jawaharlal Nehru University, Delhi, India

### **Placement Details (Number and percentage of students placed)**

Total 21 students were placed out of 71 students registered with placement cell. 16 companies invited for placement with the average annual package was 5.64 lacs per annum.

### **Extension and Outreach Activities**

Pre-Entrance Summer School 2018 was organized during June 5-15, 2018 for the academic empowerment of the weaker sections of society where free classes were conducted for the entrance examinations to admission to postgraduate course in Mathematics.

ACP Hibu Tamang, IPS delivered a talk titled "SPUNER" (Special Police Unit for North East Region) on October 25, 2018.

Poster Making Competition for M.A./M.Sc. students was organized by the Department of Mathematics, University of Delhi on September 14, 2018 to spread awareness about cleanliness and hygiene as part of the 'Swachh Bharat Abhiyan'.

Swachhata and Anti-terrorism Pledges were taken by students and faculty members on September 14, 2018 and May 21, 2018, respectively.

On the International Yoga day on June 21, 2018 talks and yoga demonstration were presented by the students of the department.

Dr. Manjeet Bhatia of Women's Studies & Development Centre, University of Delhi, delivered a talk on "Gender Sensitiveness" on April 25, 2018.

A group of M.Sc. Mathematics students of Mizoram University visited the department on 24.01.2019 under General Study Tour for better exposure.

### **Number of M.Phil./Ph.D. Awarded**

Ph.D. - 26

M.Phil. - 14

### **Faculty strength**

Permanent - 22

### **Other significant Information**

Member, Inspire fellowship Standing Committee and evaluation committee, Department of Science and Technology, 2018-21.

Prof. Ajay Kumar, Member, Expert Committee Physical and Mathematical Sciences, SERB, Department of Science and Technology, 2018-21.

Prof. C.S. Lalitha has been a member of Expert Committee constituted by Quality Improvement in Higher Education System of UGC for revising undergraduate courses in LOCF, 2018.

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## OPERATIONAL RESEARCH

### Major Activities and Achievements

The 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. The Department on regular basis organizes both student oriented and research-oriented workshops/conferences/seminars. During 2018-19, the department has organized seminars and workshops on “Motivation”, “Corporate Grooming & Soft Skills”, “Business Analytics and Research”, “Data Science Conclave” and “Machine Learning”. Eminent speakers from industry and academic institutions interacted with students and faculty and delivered lectures.

### Honours/Distinctions

#### Professor Chandra K. Jaggi

Amity Academic Excellence Award in 19th International Business Horizon INBUSH ERA world Summit in February 2019 by Amity University, Noida.

Life Time Achievement Award by International Organization of Scientific Research and Development, Visakhapatnam, July 2018.

#### Mr. Kaushal Kumar

Overall Best Paper Award at the 18th Consortium of Students in Management Research organized by Department of Management Studies, Indian Institute of Science, Bangalore, India, November 29-30, 2018.

### Publications

Anand et al. (2018). Choice based diffusion model for predicting sales of mobile phones using conjoint analysis. *The Journal of High Technology Management Research*, 29(2), 216-226.

Anand et al. (2018). System Reliability Management: Solutions and Technologies. CRC Press.

Anand et al. (2018). Modeling software fault removal and vulnerability detection and related patch release policy. *In System Reliability Management* (pp. 35-50). CRC Press.

Aggarwal et al. (2019). Modeling innovation adoption incorporating time lag between awareness and adoption process. *International Journal of System Assurance Engineering and Management*, 1-8.

Anand et al. (2019). Software patch scheduling policy incorporating functional safety standards. *In Advances in System Reliability Engineering* (pp. 267-279). Academic Press.

Anand et al. (2019). Recent Advancements in Software Reliability Assurance. CRC Press

Bansal et al. (2019). Predicting effective customer lifetime: an application of survival analysis for telecommunication industry. *Communications in Statistics-Theory and Methods*, 1-16.

Chen et al. (2018). Efficiency evaluation of fuzzy portfolio in different risk measures via DEA. *Annals*, 269(1-2), 103-127.

Chen et al. (2018). A novel hybrid heuristic algorithm for a new uncertain mean-variance-skewness portfolio selection model with real constraints. *Applied Intelligence*, 48 (9), 2996-3018.

Chen et al. (2018). A hybrid FA-SA algorithm for fuzzy portfolio selection with transaction costs. *Annals of Operations Research*, 269(1-2), 129-147.

Chaudhary et al. (2018). Optimal control promotional policy for a new product incorporating repeat purchase in segmented market: A control theoretic approach. *In Industrial Engineering*. Intech Open.

- Darbari et al. (2019). Performance evaluation of sustainable innovation practices in food supply chain using best worst method. In *Proceedings of the International Conference on Industrial Engineering and Operations Management* held at Bangkok, Thailand, March 5-7, 2019.
- Gandhi et al. (2019). Bi-Objective supply chain optimization with supplier selection. In *Exploring Critical Approaches of Evolutionary Computation* (pp. 238-255). IGI Global.
- Gupta, et al. (2018). An optimum rejuvenation strategy for maximizing reliability of wireless sensor networks. *International Journal of Advanced Scientific Research and Management*. DOI: <http://ijasrm.com/special-issue-oct-2018>.
- Gupta et al. (2018). Multi-attribute group decision making based on extended TOPSIS method under interval-valued intuitionistic fuzzy environment. *Applied Soft Computing*, 69, 554-567.
- Gupta et al. (2019). Analytical modeling of RLC protocol of LTE using stochastic reward nets. *International Journal of Communication Systems*, 32(6). DOI:<https://doi.org/10.1002/dac.3903>
- Gupta et al. (2019). A generalized TOPSIS method for intuitionistic fuzzy multiple attribute group decision making considering different scenarios of attributes weight information. *International Journal of Fuzzy Systems*, 21, 369-387.
- Jaggi et al. (2019). Inventory and credit decisions for deteriorating items with displayed stock dependent demand in two-echelon supply chain using Stackelberg and Nash equilibrium solution. *Annals of Operations Research*, 274(1-2), 309-329.
- Jaggi et al. (2018). Quantitative analysis for measuring and suppressing bullwhip effect. *Yugoslav Journal of Operations Research*, 25(2).
- Jaggi et al. (2019). Impact of credit financing, storage system and changing demand on investment for deteriorating items. *International Journal of Systems Science: Operations & Logistics*, 6(2), 143-161.
- Hasuike et al. (2018). Investor-friendly and robust portfolio selection model integrating forecasts for financial tendency and risk-averse. *Annals of Operations Research*, 269(1-2), 205-221.
- Khanna et al. (2018). Supply chain with customer-based two-level credit policies under an imperfect quality environment. *Mathematics*, 6(12), 299.
- Khanna et al. (2018). Inventory and pricing decisions for imperfect quality items with inspection errors, sales returns, and partial backorders under inflation. *RAIRO-Operations Research*. DOI: <https://doi.org/10.1051/ro/2018102>
- Khanna et al. (2019). Integrated vendor-buyer strategies for imperfect production systems with maintenance and warranty policy. *RAIRO-Operations Research*. DOI: <https://doi.org/10.1051/ro/2019029>
- Kumar & K. (2019). Optimal capacity allocation when patients encounter congestion in primary healthcare network. *International Journal of Mathematical, Engineering and Management Sciences*, 4(2), 400-408.
- Lalropuia et al. (2019). Modeling cyber-physical attacks based on stochastic game and Markov processes. *Reliability Engineering & System Safety*, 181, 28-37.
- Li et al. (2018). Business orientation policy and process analysis evaluation for establishing third party providers of reverse logistics services. *Journal of Cleaner Production*, 182, 1033-1047.
- Majumder et al. (2018). A multi-retailer supply chain model with backorder and variable production cost. *RAIRO-Operations Research*, 52(3), 943-954.
- Malekpoor et al. (2018). Integrated grey relational analysis and multi objective grey linear programming for sustainable electricity generation planning, *Annals of Operations Research*, 269(1-2), 473-503.

Mehlawat et al. (2018). Intuitionistic fuzzy multi-criteria group decision making with an application to critical path selection, *Annals of Operations Research*, 269(1-2), 505-520.

Mehlawat et al. (2018). A new possibilistic optimization model for multiple criteria assignment problem. *IEEE Transactions on Fuzzy Systems*, 26(4), 1775-1788.

Mehlawat et al. (2018). Data envelopment analysis based fuzzy multi-objective portfolio selection model involving higher moments, *Information Sciences*, 460-461, 128-150.

Singhal et al. (2019). Understanding Multi-Stage Diffusion Process in Presence of Attrition of Potential Market and Related Pricing Policy. *Yugoslav Journal of Operations Research*.

Solanki et al. (2019). An Interpretive Structural Model for Analyzing the Impact of Sustainability Driven Supply Chain Strategies. In *Proceedings of the International Conference on Industrial Engineering and Operations Management* held at Bangkok, Thailand, March 5-7, 2019.

Srivastava et al. (2018). Optimum triangular cyclic-stress ALT plan with independent competing causes of failure. *International Journal of Reliability and Applications*, 19(1), 43-58.

Srivastava et al. (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.

Srivastava, P.W., & Savita. (2018). Design of ramp-stress accelerated life test plans for a bridge network. *International Journal of Reliability and Application*, 19(2), 83-93.

Tiwari et al. (2018). Integrated supply chain of supplier and retailer for stochastic demand. *Mathematical Modelling and Analysis*, 23(4), 582-595.

#### **Number of Department Teachers serving as Editor(s)/Member(s) of Editorial Board**

Editor/Associate Editor – Five teacher serving in five national/international journals

Editorial Review Board Member - three teachers serving in three journals

#### **Research Projects**

DST-PURSE, Phase-II Grant from University of Delhi, 2014-2018, Rs. 25 Lakh.

Principal Investigator, sanctioned SERB-DST Mathematical Research Impact Centric Support (MATRICS), “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, “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).

#### **Seminars Organized -4**

Dr. Mukesh Kumar Mehlawat, Organizing Secretary, Seminar-Cum-Workshop on Business Analytics and Research organized by Department of Operational Research, University of Delhi, Delhi, February 15, 2019.

Dr. Aditi Khanna, organized four-day Workshop on How to write a Research Paper in collaboration with Association of Inventory Academician and Practitioners & Department of Operational Research, University of Delhi, December 17-20, 2018.

Dr. Adarsh Anand, Secretary of the Programme Committee of 9th International Conference on Quality, Reliability, Infocom Technology and Business Operations organized by University of Delhi, Delhi, December 27-29, 2018.

Joint Secretary in 1st International Conference on Emerging Trends in Inventory, Supply Chain & Reliability Modeling organized by University of Delhi, Delhi, December 21-23, 2018.

### **Seminar/Conference Presentations**

#### **Chandra K. Jaggi**

Invited Talk, International Conference on “*Emerging Innovation in Statistics and Operations Research (EISOR-2018)*” in conjunction with 38th Annual Convention of Indian Society for Probability and Statistics (ISPS) & 4th Convention of Indian Association for Reliability and Statistics (IARS), Department of Statistics, M.D. University, Rohtak, Haryana, December 27-30, 2018.

Invited Talk, 9th International Conference on Quality, Reliability, Infocom Technology and Business Operations (Trends and Future Directions), at University of Delhi, Delhi, Dec. 27-29, 2018.

Lecture, Faculty Development Programme on “*Research Methodology & Latex*” at BK Birla Institute of Engineering & Technology Pilani, September 7-8, 2018.

Invited Talk, National Conference on Applied Mathematical Sciences (NCAMS-2018), Department of Mathematics, Gujarat University, Ahmedabad, Gujarat, April 14, 2018.

Invited Talk, National seminar on Recent trends in statistics and OR, Department of Statistics, University of Mumbai, Mumbai, March 22 – 23, 2019.

Invited Talk, National Seminar on Optimization, Inference, Sampling Techniques and Related Areas, Department of Statistics & Operations Research, Aligarh Muslim University, Aligarh, March 09-10, 2019.

Invited Talk, International Conference on Recent Trends in Engineering, Technology and Business Management (ICRTETBM 2019), Amity University Campus, Noida, India, Feb. 20-22, 2019.

#### **Gupta, Pankaj**

Delivered Invited talk on *Multi-attribute Decision Making* in the 30th Annual Conference of Rajasthan Ganita Parishad on “Recent Advances in Mathematical Applications for Science, Engineering & Management” organized by Shekhawati Institute of Engineering and Technology, Sikar, Rajasthan, February 26, 2018.

Delivered Invited talk on *AHP for Discussion Making* in the 5th Refresher Course in “Contemporary Studies” organized by UGC-HRDC, Jawaharlal Nehru University, New Delhi, January 21, 2018.

#### **Jha C. Prakash**

Delivered a talk on *Omni-Channel Supply Chain Management* in the workshop on “Short-Term Course on Algebra and Optimization” organized by National Institute of Technology, Dimapur, Nagaland, December 10-14, 2018.

Delivered a talk on *Modelling and Optimization for Product Promotion Under Mass and Segment Media* in the workshop on “Short-Term Course on Algebra and Optimization” organized by National Institute of Technology, Dimapur, Nagaland, December 10-14, 2018.

Presented *paper Implementation of DMAIC Six Sigma with Defect Prioritization using Fuzzy-AHP* at Twenty-Seventh International Conference of Forum for Interdisciplinary Mathematics (FIM) in Conjunction with Third Convention of IARS on “Interdisciplinary Mathematics, Statistics and Computational Techniques” organized by University of Jammu, Jammu, November 02-04, 2018.

#### **Kumar, Kaushal**



Presented paper *A capacitated set covering location model for improving utilization of primary health care facilities* at the International Conference on “Emerging Trends in Operations Research and Management Science” organized by Operational Research Society of India, Indian Institute of Technology, Bombay, December 16-19, 2018.

Presented paper *Restructuring primary care network to maximize utilization and reduce patient out-of-pocket expenses* at “The 18th Consortium of Students in Management Research” organized by Department of Management Studies, Indian Institute of Science, Bangalore, November 29-30, 2018.

Mehlawat, Mukesh Kumar

Invited talk, *Performance Evaluation using DEA* in the 30th Annual Conference of Rajasthan Ganita Parishad on “Recent Advances in Mathematical Applications for Science, Engineering & Management” organized by Shekhawati Institute of Engineering and Technology, Sikar, Rajasthan, February 26, 2019.

### **Placement Details**

Number and percentage of students placed: 81 (81%)

Number of Companies visited for campus recruitment: 32

### **Extension and Outreach Activities**

A visit was made to Shiv Shakti Model School, Rangpuri on 28th September, 2018.

Blood bank camp on 9<sup>th</sup> October, 2018 with a motto to encourage youth for blood donation to save life of others organised in association with Rotaract Club, South Delhi.

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

Ph.D. – 5

M.Phil. – 14

### **Faculty Strength**

Permanent – 12

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## **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.

### **Publications**

Aggarwal et al.(2017). Projected Mixture Designs Based on Weighing Matrices. *International Journal of Experimental Design and Process Optimisation*, 5 (4), 285-300. (published online on May 22, 2018).

Aggarwal et al. (2018). Orthogonally blocked designs for Darroch and Walter Model. *International Journal of Agricultural Statistical Sciences*, 14(1), 239-250.

- Singh et al. (2018). Mixture Designs Based on Hadamard Matrices. *Statistics and Applications*, 16(Nos. 2. New Series), 77-87.
- Singh et al. (2019). Construction of Mixture Designs Based on Taguchi's Fixed Element Orthogonal Arrays. *International Journal of Statistics and Reliability Engineering*, Vol. 5(2), 89-95.
- Chaturvedi et al. (2018). Inference on the parameters and reliability characteristics of generalized inverted scale family of distributions based on records. *Statistics, Optimization and Information Computing*, 6(2), 189-207.
- Chaturvedi et al. (2018). Statistical inference for the reliability functions of a family of lifetime distributions based on progressive type II right censoring. *Statistical*, 78 (1), 81-101.
- Chaturvedi et al. (2018). Estimation of  $P(X>Y)$  for the positive exponential family of distributions. *Statistical*, 78 (2), 149-167.
- Chaturvedi et al. (2018). Estimation and testing procedures of the reliability functions of generalized inverted scale family of distributions. *Statistics*, 53 (01), 148-176. <https://doi.org/10.1080/02331888.2018.1527843>.
- Chaturvedi et al. (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>.
- Chaturvedi et al. (2019). Shrinkage estimators of the reliability characteristics of a family of lifetime distributions based on records. *Communications in Statistics - Theory and Methods*. <https://doi.org/10.1080/03610926.2018.1510001>.
- Chaturvedi et al. (2019). Second-order approximations for a multivariate analogue of Behrens-Fisher problem through three-stage procedure. *Communications in Statistics - Theory and Methods*. <https://doi.org/10.1080/03610926.2019.1589517>.
- Chaturvedi et al. (2019). Estimation and testing procedures of the reliability functions of Nakagami distribution. *Austrian Journal of Statistics*, 48, 15-34. <http://www.ajs.or.at/doi:10.17713/ajs.v48i3.827>.
- Chaturvedi et al. (2019). On estimation of reliability functions using record values from proportional hazard rate model. *Austrian Journal of Statistics*, 48, 35-53. <http://www.ajs.or.at/doi:10.17713/ajs.v48i3.831>.
- Goel et al. (2019). Multistate Markov model for predicting the natural disease progression of type 2 diabetes based on hemoglobin A1c. *J Nephropharmacol*, 8(1) 04.
- Grover et al. (2019). On the estimation of misclassification probabilities of chronic kidney disease using continuous time hidden Markov models. *J Nephropharmacol*, 8(1) e07, DOI: 10.15171/npj.2019.07.
- Grover et al. (2018). Examining the Effect of Reduction of Predictors Affecting the Survival Time of HIV/AIDS Patients using a Multiple Correlation/ Association Technique. *J Commun Dis*, 50(3), 15-21.
- Grover et al. (2018). Cure Fraction Estimation for Traumatic Lumbar Puncture in Patients with Acute Lymphoblastic Leukemia. *Research & Reviews: Journal of Oncology & Hematology*, 7(3), 12-21.
- Grover et al, Actuarial Modeling of Insurance Premium for Patients with Acute Lymphoblastic Leukemia (ALL). *Journal of Applied Quantitative Methods*, 13(4). (Online)
- Kumari, Pandey & R. (2019). On Bayesian Parameter Estimation of Beta Log Weibull Distribution under Type-II censoring. *Communications in Statistics- Simulation and Computation*. <https://www.tandfonline.com/doi/full/10.1080/03610918.2019.1565579>.

Kumari et al. (2019). Estimation and testing procedures for the reliability functions of Kumaraswamy-G distributions and a characterization based on records. *Journal of Statistical Theory and Practice*, 13:22. <https://doi.org/10.1007/s42519-018-0014-7>.

Kumari et al. (2018). High-mobility group box 1 protein (HMGB1) gene polymorphisms and cancer susceptibility: A comprehensive meta-analysis. *Clinica Chimica. Acta*, 483, 170-182. <https://doi.org/10.1016/j.cca.2018.04.042>.

Pandey et al. (2018). Bayesian Estimation via numerical approximations under Progressive Type II Censoring. *International Journal of Scientific Research in Mathematical and Statistical Sciences*, 5(6), 362-379.

Pandey et al. (2018). Bayesian Analysis of Power Generalized Weibull Distribution. *International Journal of Applied and Computational Mathematics*, 4(6): 141-157.

Rathor et al. (2018). Biodegradation of pyrene in soil microcosm by *Shewanella* sp. ISTPL2, a psychrophilic, alkalophilic and halophilic bacterium. *Bioresource Technology Reports*, 4, 129-136. <https://doi.org/10.1016/j.biteb.2018.10.004>.

Sabharwal et al. (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. DOI: 10.1080/02664763.2019.1573882.

Sabharwal et al. (2018). A Predictive Model for Progression Of Chronic Kidney Disease: A Systematic Review. *Int. J. Agricult. Stat. Sci.* 14(2), 637-646.

Sabharwal et al. (2019). Statistical Significance of Prognostic Factors on the Progression of Chronic Kidney Disease Through Simulation Study. *J Nephropharmacol*, 8(2): 20.

Saran et al. (2018). Relationships for moments of generalized order statistics from Erlang-truncated exponential distribution and related inference. *ProbStat Forum*, 11, 91-103.

Varshney et al. (2018). Cure Fraction Model for the Estimation of Long-term Survivors of HIV/ AIDS Patients under Antiretroviral Therapy. *J Commun Dis*, 50(3): 1-10.

### **Seminars Organized - 3**

Professor Anoop Chaturvedi, Department of Statistics, University of Allahabad, Allahabad “Data Mining Techniques for Exploring Big Data” on January 25, 2019.

Professor Debasis Kundu, Department of Mathematics & Statistics, Indian Institute of Technology, Kanpur “Simple Step-Stress Models with a Cure Fraction” on February 22, 2019.

Professor Rabindra Nath Das, Department of Statistics, University of Burdwan, West Bengal, “Robust First-Order Life Time Improvement Experimental Designs” on July 20, 2018.

### **Conferences Organized:**

9th International Conference on Quality, Reliability, Infocom Technology and Business Operations, University of Delhi, Delhi, India, December 27-29, 2018, Gurprit Grover

### **Seminar/Conference Presentations:**

Chaturvedi, Ajit delivered an Invited Talk on “*Estimation and Testing Procedures of the Reliability functions of Generalized inverted scale family of Distributions*” Department of Statistics, University of Jammu.

Garg Renu

Presented a paper, “*Estimation of Stress-Strength Reliability in Inverse Weibull Distribution using Progressively First Failure Censored Data*”, International Conference on Emerging Innovations in Statistics & Operations Research, M.D. University, Rohtak, India. December 27-30, 2018.

Presented a paper, “*Reliability Estimation in Nakagami Distribution using Progressively Censored Data*”, International Conference on Emerging Trends in Inventory, Supply Chain & Reliability Modeling University of Delhi, Delhi, India. December 21-23, 2018.

Kumari, Taruna

Presented paper “*Robust Bayesian analysis of generalized inverted family of distributions*” in “11th Triennial Conference of Association of Asia Pacific Operational Research Societies (APORS) in Kathmandu 2018”, NEPAL. Conference Title - Twenty seventh international conference of forum for interdisciplinary mathematics (FIM) in conjunction with third convention of IARS on Interdisciplinary Mathematics, Statistics & Computational techniques (IMSCT 2018 - FIM XXVII), August 6-9, 2018.

Presented paper “*Estimation and comparison of the stress-strength models with more than two states under Weibull distribution and type II censoring scheme*” in “The 33rd Annual Conference of The Ramanujan Mathematical Society” (ACRMS-2018) held at Department of Mathematics, DU, Delhi, INDIA, June 1-3, 2018.

Pandey, Ranjita

Presented paper “*Inference under Progressive Type II Censoring Scheme for Beta Log Weibull Distribution*”, International Conference on Advances in Statistical Methods and Data Science, Department of Statistics, University of Madras, December 21-22, 2018.

Presented paper “*Bayesian Estimation via approximations under Type II Progressive Censoring*”, 9th International Conference on Quality, Reliability, Infocom Technology & Business Operations jointly organized by Department of Operational Research, University of Delhi and Lulea University of Technology, Sweden, December 27-29, 2018.

Singh, Poonam delivered Platinum Jubilee Lecture on “*Designs for Mixture Experiments through Projection*” in the Section of Mathematical Sciences (including Statistics) at 106th Indian Science Congress at Lovely Professional University, Jalandhar, January 3-7, 2019.

Thapliyal, Puja presented paper, “*Construction of trend free orthogonal main effect plan using BIBD*”, 9th International Conference on Quality, Reliability, Infocom Technology and Business Operations, University of Delhi, Delhi, India. December 27-29, 2018.

Verma, Kanika presented paper, “*Relationships for moments of generalized order statistics from Erlang-truncated exponential distribution and related inference*”, 9th International Conference on Quality, Reliability, Infocom Technology and Business Operations, University of Delhi, Delhi, India. December 27-29, 2018.

#### **Placement Details (Number and percentage of Students placed)**

Number and percentage of students’ participants: 71, 80.68%

Number and percentage of students placed: 52, 73.23%

Number of Companies visited for campus recruitment: 30

#### **Extension and Outreach Activities**

Teacher’s Day celebration on Sep 5, 2018.

Group Discussion Session on Oct 27, 2018.

CV making Workshop on Nov 02, 2018.

Clothes Collection Drive Jan 14-16, 2019.

Blood Donation Camp on Jan 29, 2019.

Ethnic day celebration including Saraswati Puja on February 12, 2019.

Heritage Walk at Tughlakabad Fort on February 16, 2019.

Yoga Session by Yogi Haimanti Mukhopadhyay, IIT, Delhi on February 21, 2019.

Series of aptitude tests organized for M.A./M.Sc. 1<sup>st</sup> year students.

Bimonthly presentations by research scholars/teachers under Research Activity Cell.

**Number of Ph.D./M. Phil. Awarded:**

Ph.D. - 05

M. Phil. - 07

**Number of faculty Permanent/Temporary/Ad-hoc**

Permanent - 04

Ad-hoc - 05

**Other Significant Information:**

The Department has its own placement cell called 'Credence'. Every year about 75% of the students get placed through Placement Cell. In the year 2018-19, 52(till date) students got placed through the Placement Cell. The Department has two well-equipped fully computerized laboratories with latest computing facilities to the students and researchers.

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**FACULTY OF MEDICAL SCIENCES**

The Faculty of Medical Sciences began in the year 1970 for training students in Medical Sciences at Undergraduate, Postgraduate, Super-specialty and Ph.D levels. It has fourteen colleges/institutes affiliated to it. University College of Medical Sciences is its own college.

**Number of Medical colleges and hospitals affiliated to it**

1. Maulana Azad Medical College, New Delhi 110002
2. Lady Hardinge Medical College, New Delhi 110001
3. University College of Medical Sciences, Delhi 110095
4. Vallabhbhai Patel Chest Institute, Delhi 110007
5. GB Pant Institute of PG Medical Education & Research, Delhi 110002
6. Maulana Azad Institute of Dental Sciences, New Delhi 110002
7. Institute of Human Behaviour and Allied Sciences, Delhi 110095
8. Army Hospital (Research & Referral), Delhi Cantt 110010
9. National Institute of Health and Family Welfare, Munirka, Delhi 110067
10. Kasturba Hospital, Delhi 110002

11. Institute of Nuclear Medicine and Allied Sciences, Timarpur, Delhi 110054
12. Hindu Rao Hospital, Malka Ganj, Delhi 110007
13. Central Health Education Bureau, Delhi 110002
14. Chacha Nehru Bal Chikitsalaya, Geeta Colony, Delhi 110031

**Courses it is conducting**

**Undergraduate**

1. MBBS
2. BDS
3. B.Sc. (MIT) Radiology

**(i) Postgraduate**

**Medical MD and MS Courses:**

- i. Anaesthesiology
- ii. Anatomy
- iii. Biochemistry
- iv. Community Health Administration
- v. Community Medicine
- vi. Dermatology, Venereology & Leprosy
- vii. Forensic Medicine
- viii. General Medicine
- ix. General Surgery
- x. Microbiology
- xi. Obstetrics & Gyneacology
- xii. Ophthalmology
- xiii. Orthopedics
- xiv. Otorhinolaryngology(E.N.T)
- xv. Paediatrics
- xvi. Pathology
- xvii. Pharmacology
- xviii. Physiology
- xix. Psychiatry
- xx. Pulmonary Medicine
- xxi. Radio Diagnosis
- xxii. Radiation Oncology

### **Postgraduate Dental Courses**

- i. MDS Conservative & Endodontics
- ii. MDS Oral and Maxillofacial Surgery
- iii. MDS Oral Medicine & Radiology
- iv. MDS Oral Pathology
- v. MDS Orthodontics & Dentofacial Orthopaedics
- vi. MDS Paedodontics & Preventive Dentistry
- vii. MDS Periodontology
- viii. MDS Prosthodontics and Crown & Bridge
- ix. MDS Public Health Dentistry

### **M.Sc. and M.Phil. Courses:**

- i. M.Sc. (Medical Imaging Technology)
- ii. M.Phil. (Clinical Psychology)

### **Super-speciality Courses:-**

- i. DM Cardiology
- ii. DM Medical Gastroenterology
- iii. DM Neonatology
- iv. DM Neurology
- v. DM Cardiac Anaesthesia
- vi. DM Pulmonary Medicine
- vii. M.Ch. Cardio-Vascular & Thoracic Surgery (CVTS)
- viii. M.Ch. Neurosurgery
- ix. M.Ch. Pediatric Surgery
- x. M.Ch. Surgical Gastroenterology

### **Ph.D Programme:-**

#### **S.No. Department**

- i. Anaesthesiology
- ii. Anatomy
- iii. Bio-Chemistry
- iv. Community Medicine
- v. Dermatology, Venereology and Leprosy

- vi. General Medicine
- vii. General Surgery
- viii. Microbiology
- ix. Obstetrics & Gynaecology
- x. Paediatrics
- xi. Pathology
- xii. Pharmacology
- xiii. Physiology
- xiv. Radiology
- xv. Pulmonary medicine

**PG Diploma Courses:-**

- i. Anaesthesiology (DA)
- ii. Derma., VEN., & LEP (DDVL)
- iii. Health Administration (DHA)
- iv. Health Education (DHE)
- v. Obstetrics & Gynaecology (DGO)
- vi. Ophthalmology (DO)
- vii. Otorhinolaryngology (DLO)
- viii. Paediatrics (DCH)
- ix. Radiation Medicine (DRM)
- x. Radio-Diagnosis (DMRD)

**The following departments are there in the Faculty of Medical Sciences:**

- | <b>S.No.</b> | <b>Department</b>   |
|--------------|---------------------|
| i.           | Anaesthesiology     |
| ii.          | Anatomy             |
| iii.         | Bio-Chemistry       |
| iv.          | Community Medicine  |
| v.           | Derma., ven. & lep. |
| vi.          | Forensic Medicine   |
| vii.         | General Medicine    |
| viii.        | General Surgery     |



- ix. Microbiology
- x. Obstetrics & Gynaecology
- xi. Ophthalmology
- xii. Orthopaedics
- xiii. Otorhinolaryngology (E.N.T.)
- xiv. Paediatrics
- xv. Pathology
- xvi. Pharmacology
- xvii. Physiology
- xviii. Psychiatry
- xix. Pulmonary Medicine
- xx. Radiology
- xxi. Radiation Oncology
- xxii. Dental Science

**Admissions: Every year the faculty admits students for its undergraduate, Postgraduate, Super-Speciality and Ph.D. Courses.**

**In the year 2018, the following number of students were admitted:-**

- i. MBBS - MS/Diploma/MDS) students - 556
- ii. DM and MCh students - 51
- iii. BDS - 40 students
- iv. B.Sc. (MIT) Radiology – Admission by concerned college
- v. M.Sc. (Medical Imaging Technology) – Admission by concerned college
- vi. M.Phil. (Clinical Psychology) - Admission by concerned college

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#### **ANATOMY (LHMC)**

#### **Major Activities and Achievements**

Faculty members have published more than ten research papers in National and International Journals. Organized events for Social awareness regarding Organ and Body Donation among students and public. Activities have been undertaken for all round personality development of Medical Students. Have facilitated capacity building tour of students for J&K and Laddakh under Indian Army Sadbhavana Mission. Embalming of more than 600 bodies carried out for teaching as well as public service (LHMC being nodal centre for Embalming)

## **Publications:**

Arora, S., Verma, M., Kaur, S., Chhabra, S., Jain, P. (2018). Measurement of Sacral Parameters of Surgical Importance in North Indian Population. *Journal of Clinical Diagnostic & Research*, 12(2), 05-09.

Gupta, M., Agarwal, S. (2019). Morphometric Study of Foramina Transversaria and the Incidence of Accessory Foramina in Cervical Spine of Indian Population. *Journal of Clinical and Diagnostic Research*, Vol-13(3), AC07-AC11.

Hansdak, R. (2018). Anamolous branching pattern of Right Axillary Artery: Case Report. *Indian Journal of Applied Research*, 8(3), 54-55.

Jain, P. (2018). A Study On Knowlede, Attitude And Practice Regarding Anaemia In Antenatal Women In A Government Teaching Hospital, Dehradun. *Ejpmr*, 5(10), 202-205.

Jain, P. (2018). Coeliac Trunk And Left Gastric Artery Variation: A Clinical Interpretation. *International Journal of Current Research*, 10(7), 71840-71843

Jeph, RB., Agarwal, S., Jeph, V., Kakar, S., Gupta, U., Tuli, A. (2018). Serum vascular endothelial growth factor levels in normal early pregnancies and recurrent abortion patients. *J. Evolution Med. Dent. Sci.* 7(46), 5794-57

Mahajan, R., Tuli, A., Raheja, S., Tomer, S., Beri, S. (2018). Morphometric study of sutural bones of orbit with their clinical Implications. *IJCEMR*, 2(2), 29-36

Shilal, P., Agarwal, S., Tuli, A., Kakkar, S. (2018). Variations In The Drainage Pattern Of Middle Hepatic Vein And Left Hepatic Vein In The Left Lobe Of Liver. *Journal of Clinical and Diagnostic Research*, 9, AC13 - AC17.

Saluja, S., Agarwal, S., Tuli, A., Raheja, S., Tigga, S., Paul, S. (2018) Morphometric Analysis of the Sacrum and Its Surgical Implications. DOI: 10.7860/JCDR/2018/33991.11661

Saluja, S., Agarwal, S., Paul, S., Raheja, S., Tuli, A., Tigga, S. (2018) Morphometric Analysis Of The Sacral Hiatus In Indians: Its Clinical Importance. *Int J Anat Res*, Vol 7(1.1):6064-70.

Yadav, A., Singh, V., Chauhan, K., Sharma, S.P., Verma, N., Yadav, A. (2018). Prevalence of Gall stone in Western Uttar Pradesh Population. *J. Anat. Sciences*, 24(1): 38-42

## **Journals Published/ Edited**

Dr. Anita Tuli: Editorial board member for online journal 'Brachial plexus, Forensic and Neuroscience, Journal of ASI

Dr. Shashi Raheja: Member Editorial board for Indian Journal of Otology

## **Seminars/ Conferences organized**

Symposium on Emotional Intelligence. Venue: SJ Auditorium, LHMC, Date: September 2018.

Conducted Intercollege EBSO- Elsevier's Basic Sciences Olympiad- Quiz for Ist year MBBS students at Anatomy Lecture theatre, LHMC, May 2018

## **Seminars/Conferences Presentations**

Anjoo Yadav, Keynote Speaker on topic "Importance of introducing Bio-ethical concepts in Medical students- starting from first year MBBS" at ETHOS-2018 (National Bio-Ethics, Medical & Research Conference) in SGRD University of Health Sciences, Sri Amritsar in Aug. 2018

Minakshi Malhotra, Presented Oral Paper entitled “Student perception towards Animation Video aided Embryology Lectures” in NATCON, AIIMS Rishikesh in Nov. 2018.

Sheetal Joshi, Presented Oral Paper entitled “Study of arterial supply of thumb in correlation with pattern of arches and clinical implication” in NATCON, AIIMS Rishikesh in Nov. 2018.

Shilpa Bathl, Presented Oral paper entitled “Effect of age on the indices of mandible: A radio-morphometric study in the North- Indian population” in NATCON, AIIMS Rishikesh in Nov. 2018.

### **Other Inter-Institutional Collaboration**

1<sup>st</sup> Cadaveric Basic FESS workshop (organised by E.N.T Deptt. in LHMC New Delhi) was co-organised by Anatomy Deptt , March 2019.

Faculty participated in 3<sup>rd</sup> Asian & African Stereology Congress & Hands-on Training Stereology Workshop held at MAMC, New Delhi / AIIMS, New Delhi, Dec. 2018.

### **Extension and Outreach activities**

In collaboration with Indian Army, Capacity Building Tour for Girl students of JK under ‘Sadbhavana’ Indian Army’s Flagship was organized , 19<sup>th</sup> Feb. & 27<sup>th</sup> Dec, 2018.

Facilitated Educational & Motivational Tour for Girl students of Nubra Valley Ladhak under ‘Sadbhavana’ Indian Army’s Flagship program, July 2018

Sensitization session about organ & body donation for volunteers of Dadhichi DehDan Samiti, New Delhi. Venue: Anatomy Lecture theatre, LHMC, April 2018.

In collaboration with NOTTO Organ Donation “ Sanjeevani Mela” under SLM, Organ Donation Awareness Forum was organized in Lady Harding Medical College, Feb 2019

### **Faculty Strength: 14**

### **Other Significant Information**

EMBALMING: More than 600 bodies were embalmed during above period for teaching of medical students as well as public service (LHMC being nodal centre for Embalming)

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### **ANATOMY (MAMC)**

#### **Major activities and achievements**

Institution of a well-equipped embalming facility recognized 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. Establishment of Fetal autopsy Unit catering to the autopsies done in the campus hospitals. The department has a fetal repository demonstrating normal and various continental anomalies. Up-gradation of museum to international standards, highlighting evolution, history of medicine along with recent advances such as molecular biology apart from precious anatomical specimens (dry and wet), charts, models. This has become a learning asset. Up-gradation of Book bank and Bone bank facilities which now has resulted in maximal utilisation of the resource for teaching and research. Department has a modern molecular and cytogenetics laboratory where research projects are under progress.

## Publications

Aggarwal, V., Tiwari, S., Mishra, S. (2018). Expression of neuron specific enolase and S 100 in the ileum and ileocaecal junction in the human fetuses at various gestational ages. *MAMC J Med Sci*, 4, 75-81.

Bhadoria, P., Pangtey, B., Mishra, S. (2018). Morphometric study of proximal end of tibia with its clinical implications in north Indian population. *Evolution Med. Dent. Sci*, 7(23), 6808-13.

Mahajan, A., Tiwari, S., Mishra, S. (2018). A unique conglomeration of variations in the celiac, hepatic and superior mesenteric artery: a clinicoembryological perspective. *Int j app basic med res*, 8(4), 256-58.

Mishra, S., Roy, TS., Wadhwa, S. (2018). Morphological and morphometrical maturation of ventral cochlear nucleus in human foetus, *J Chemical Neuroanatomy*, 93, 38-47.

Mochan, S., Bhatla, N., Luthra, K., Kumar, R., Dwivedi, S., Sharma, A., Dhingra, R. (2018). Role of sVEGFR (sFlt) in inducing endoplasmic reticulum stress in trophoblast cells and its status in preeclampsia. *J Anat S Ind*, 67 (2), 93-103.

Patil, S., Sethi, M., Mishra, S. (2018). Klingler's fiber dissection method- an assisting approach towards teaching neuroanatomy. *Int J Anat Res*, 6(1.3), 5041-5045.

Poonia, D., Goswami, P and Mishra, S. (2018). Variant morphology and arterial supply of diaphragmatic crura with probe patent foramen ovale. *Morphologie*, 102(339), 289-93.

Wadhwa, S., Mishra, S., Das, S,S and Vasudeva, N. (2018). Hands-on neuroanatomy learning exercise for undergraduate students. *Ejbps*, 5(1), 416-420.

## Research Projects

Expression of Ghrelin in developing human stomach. Dr. S Mishra, Dr. N.Vasudeva supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".

Genotoxicity in Formaldehyde exposed subjects Dr. Dinesh Kumar, Dr. N. Vasudeva supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".

Stereological quantification of human fetal gastric mucosa. Dr. Babita Pangtey, Dr S Mishra, Dr. N. Vasudeva supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".

Stereoscopic anatomy of the petrous part of the temporal bone and skull base. Dr. Surbhi Wadhwa, Dr S Mishra, Dr. N.Vasudeva supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".

New cadaveric preservation technique- Modified Thiel Embalming. Dr. Preeti Goswami, Dr. N.Vasudeva, Dr. Dinesh Kumar supported by Govt of NCT under the plan scheme "Strengthening of Medical Research at MAMC".

Study of expression of synaptophysin and BDNF in human fetal taste buds. Mr. Adhyayan (2nd Year MBBS student), Supervisor- Dr. Sabita Mishra supported by ICMR STS.

Study on comparison of Alston's, Mulligan's, Prussian blue and Astra blue method for staining human brain sections. Dr. Anita Mahajan supported by Govt. of NCT under the plan scheme "Strengthening of Medical Research at MAMC".

## Conferences Organized

International: 3<sup>rd</sup> Asian and African Stereology Congress and Hands on Training Stereology workshop, New Delhi, Dec. 2018.

### **Seminars/ conference presentations**

Kahkashan, oral presentation entitled 'Prenatal development of human lung and expression of FGF 10 in tubulogenesis' at NATCON 66 held at AIIMS Rishikesh in Nov. 2018.

Surbhi Wadhwa, Guest Lecture on Anatomy of Mid urethral slings at a workshop on Pelvic Reconstructive surgery at 40<sup>th</sup> Annual conference of AOGD at Medanta Medicity in Nov. 2018

Sankatmochan, oral presentation entitled 'A comparative study of fresh and old embalmed lungs using plastination; using plastination: qualitative and quantitative approach' at NATCON 66 held at AIIMS Rishikesh in Nov. 2018

Sankatmochan, poster presentation entitled 'VEGF alleviates endoplasmic reticulum stress in trophoblastic cells herewith PERK arm; implications in preeclampsia.' at NATCON 66 held at AIIMS Rishikesh in Nov. 2018.

Swati Tiwari, poster presentation entitled 'Development of human enteric nervous system in humans during midtrimester and third trimester period' at international workshop entitled 'Molecular neurosciences: from genes to circuits in health and disease' held at NCBS, Bengaluru in Feb. 2019.

### **Other Inter Institutional collaborations**

3rd Asian and African Stereology Congress and Hands on Training Stereology workshop, New Delhi on 18th - 20th December 2018 was organized in collaboration with Turkish Society of Stereology and AIIMS, New Delhi

### **Extension and outreach activities**

Body donation awareness campaign

Polio prevention program

### **Faculty strength - 10**

### **Other significant information**

Sabita Mishra

Reviewer for Cunningham's Manual of Practical anatomy 16<sup>th</sup> edition Volume 1, 2, 3

Received the Elseviers reviewers' certificate.

Chaired a session on 'Emotional Intelligence' at Lady Hardinge Medical College, New Delhi, in September 2018 & chaired a session on new frontiers in hydrocephalus conducted by GIPMER, New Delhi

Dr Neelam Vasudeva and Dr. Sabita Mishra have chaired a session on 'Fetal Autopsy' at Dept of Obstetrics and Gynaecology at MAMC.

Dr. Nidhi Mangla's received the Pyarelal Sharma and Bishan Devi gold medal for the best thesis in pre/paraclinical subject for the year 2018.

Dr. Sankat Mochan received the 'Dr.H K Chatterjee gold medal ', for the best oral paper presented at NATCON 2018

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## **ANATOMY (UCMS)**

### **Major Activities and Achievements**

All the Ist semester students took cadaveric oath before stepping into medical profession to give due respect to cadavers, their first teacher. The department started Guest lecture (motivational talks) by renowned

UCMS alumnus in collaboration with other Faculty alumni. Distributed certificates to the organum donum group as advisor organum donum.

### **Honours/Distinctions**

Dr. Renu Chauhan

Outstanding and exemplary educator award on the teacher's day by Physician's forum of India, 5th Sept., 2018. and awarded by Delhi Doctors Forum in recognition of outstanding contribution to medical profession and community, Dec., 2018.

Awarded Jai Hind Award for social activities by AR Foundations in the Constitution club, Jan., 2019.

### **Publications**

Dhurandhar, D., Bharihoke, V, and Kalra, S. (2018). A histomorphometric evaluation of effects of sucralose ingestion on liver of albino rats. *International Journal of Scientific Research*. 7(5), 45-46.

Dhurandhar, D., Bharihoke, V and Kalra, S. (2018). A histological assessment of effects of sucralose on liver of albino rats. *Morphologie*, 102(338), 197-204.

Dhurandhar, D., Kalra, S and Bharihoke, V. (2018) Effect of sucralose consumption on body weight- a novel experiment on Wister albino rats. *International Journal of Scientific Research*, 7(5), 55-56.

### **Seminars Organized**

ENT workshop (a part of International conference on Cancer of larynx and hypopharynx and hands on Preconference Workshop) was held in the department of Anatomy, UCMS, Dec. 2018.

### **Seminar/Conference Presentations**

Dr Renu Chauhan took a lecture on organ and whole body donation for Dadhichi Deh Daan Samiti at Vivekanad School, Anand Vihar, April 2018.

### **Faculty Strength: 2**

### **Other Significant Information**

Dr. Kalra Sunita: Reviewed Cunningham's Manual of Practical Anatomy, Volume 1, 16<sup>th</sup> Edition.

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## **ANAESTHESIOLOGY (UCMS)**

### **Honours/Distinctions**

Dr. Ashok Kumar Saxena was elected as President of North Zone, Indian Society of Anaesthesiologist (ISA).

### **Publications:**

Arora, V., Tyagi, A., Verma, G. (2018). Prediction of outcome in perforation peritonitis: Sequential organ function assessment score and inflammatory mediators., *J Anaesthesiol Clin Pharmacol*, 34(2), 253-254.

Chilkoti, GT., Kumar, M., Mohta, M., Saxena, AK., Sharma, N., Singh, J. (2019). Comparison of postoperative analgesic efficacy of low-dose bolus intravenous dexmedetomidine and intraperitoneal dexmedetomidine with bupivacaine in patients undergoing laparoscopic cholecystectomy: A randomised, controlled trial, *Indian J Anaesth*, 63(2), 106-113.

Chaudhary, S., Meena, J. (2018). To Compare and evaluate the role of I- gel, PLMA & endotracheal tube in patients undergoing elective LSCS under general anaesthesia, *Int J of Science and Research*, Vol 8, 2319-7064.

Dolma, L., Salhotra, R., Rautela, RS, Banerjee, A. (2018). Isobaric ropivacaine with or without dexmedetomidine for surgery of neck femur fracture under subarachnoid block., *J Anaesthesiol Clin Pharmacol*, 34(4), 518-523.

Kayina, CA., Salhotra, R., Sethi, AK., Mohta, M., Sharma, AK. (2018). Postintubation Sequels: Influence of Fluticasone and Technique of Intra-Operative Muscle Relaxation. *Anesth Essays Res*, 12(4), 891-896.

Mohta, M. (2018). Head elevation beyond sniffing position - An aid to airway management., *J Anaesthesiol Clin Pharmacol*, 34, 247-248.

Mohta, M., Duggal, S., Chilkoti, GT. (2018). Randomised double-blind comparison of bolus phenylephrine or ephedrine for treatment of hypotension in women with pre-eclampsia undergoing caesarean section., *Anaesthesia*, 73, 839-6.

Mohta, M., Dubey, M., Malhotra, RK., Tyagi, A. (2019). Comparison of the potency of phenylephrine and norepinephrine bolus doses used to treat post-spinal hypotension during elective caesarean section, *Int J ObstetAnesth*, 38, 25-31.

Mohta, M., Rani , A., Sethi, AK., Jain, AK. (2019). Efficacy of local wound infiltration analgesia with ropivacaine and dexmedetomidine in tubercular spine surgery – A pilot randomised double-blind controlled trial., *Indian J Anaesth*, 63, 182-7.

Salhotra, R., Tyagi, A. (2019). Medication errors: They continue., *J Anaesthesiol Clin Pharmacol*, 35(1), 1-2.

Salhotra, R., Tyagi, A. (2019). Medication errors: They continue. *J Anaesthesiol Clin Pharmacol*, 35(1), 1-2.

Saxena, Kumar Ashok., Jain, Parmanand., Dureja, Gur Prasad, *et al.* (2018). Pharmacological Management of Neuropathic Pain in India: A consensus statement from Indian Experts, *Indian J Pain*, 3 2(3), 1-13.

Saxena, Kumar Ashok., Jain, Parmanand., Bhatnagar, S. (2018). The prevalence of chronic pain among adult in India., *Indian J.Palliavtive Care*, 24, 492-477.

Saxena, Kumar Ashok. (2019). Too much in the way expectation or too little in terms of original scientific research data. *Ind.J.Pain*, 33, 48-49.

Tyagi, A., Ramanujam, M. (2018). Epidural volume extension, *Anaesthesia*, 73(5), 645.

Tyagi, A., Kumar, M. 2018, Thoracic epidural in Pancreatitis., *Crit Care Med*, 46(7), e720-e722.

Tyagi, A., Luthra, A., Kumar, M., Das, S. (2018). Epidemiology of Acute Kidney Injury and Role of Urinary [TIMP-2] • [IGFBP7]: A Prospective Cohort Study in Critically Ill Obstetric Patients., *Int J Obstet Anesth*, 36, 77-84.

Tyagi, A., Salhotra,, R. (2018). Total hip arthroplasty and peripheral nerve blocks: Limited but salient role?., *J Anaesthesiol Clin Pharmacol*, 34(3), 379-380.

Tyagi, A., Lahan, S., Verma, G., Das, S., Kumar, M. (2018). Role of Intra-Abdominal Pressure in Early Acute Kidney Injury: A Prospective Cohort Study in Critically ill Obstetric Patients., *Indian J Crit Care Med*, 22(8), 602-607.

Tyagi, A., Verma, G., Luthra, A., Lahan, S., Das, S., Rai, G., Sethi, AK. (2019). Risk of Early Postoperative Acute Kidney Injury with Stroke Volume Variation Guided Tetrastarch versus Ringers Lactate., *Saudi J Anaesth*. 13(1), 9-15.

Tyagi, A., Gupta, YR., Das, S., Rai, G., Gupta, A. (2019) Effect of Segmental Thoracic Epidural Block on Pancreatitis Induced Organ Dysfunction: A Preliminary Study, *Indian J Crit Care Med*, 23(2), 89-94.

#### **Seminars And Conferences organized:**

The 17<sup>th</sup> North Zone ISA Conference and 57<sup>th</sup> Annual Conference of Delhi Branch at NAC-ICAR Complex, Pusa, New Delhi. April'2018

CME on "Critical Care - A paradigm shift" at UCMS. Jan., 2019

Monthly Clinical Meeting of ISA Delhi Chapter for presentation of five Research Papers at UCMS. March, 2019

### **Seminars/conferences presentations: (Selected)**

Ashok Kumar Saxena

Presented a paper on Postherpetic Neuralgia & moderated a session as invited faculty on "Systematic Reviews" in Chronic Pain during the 17<sup>th</sup> World Congress on Pain, held at Boston, USA. Sept., 2018.

Delivered "Invited Lecture" "Future Proofing of Pain education and Postmodern Pain Education" at the 34<sup>th</sup> Annual Conference of Indian Society for Study of Pain (ISSPOM 2019) held at Bengaluru, Feb., 2019.

Delivered a talk at 11<sup>th</sup> National Conference of Obstetric Anaesthesiologist (AOA 2018), Jodhpur, on "Update on anaesthetic concerns in Gestation Diabetes", Sept. , 2018.

Dr. Sujata Chaudhary

Delivered a talk at AOA(Association of Obstetric Anaesthesiologists) 2018,11<sup>th</sup> National conference of Obstetric Anaesthesiologist at Jodhpur, on "Wet Tap Now What? Safe Navigation and risk management" Sept., 2019

Invited faculty and delivered a talk on "CPR in pregnant patient " at DMC Ludhiana, PG Assembly Feb., 2019.

### **Other significant Information:**

Dr. Swati Das (3<sup>rd</sup> Year PG student) under Supervision of Prof Ashok Kumar Saxena awarded the National Award of ISA T.N.Jha award, Nov. 2019.

Dr. Ankita Garg (3<sup>rd</sup>yr PG student), under supervision of Dr. Medha Mohta, won 3<sup>rd</sup> prize in Best Free Paper Competition at ESRA Congress held at Dublin, Ireland, Sept. 2018.

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## **ANAESTHESIOLOGY (MAMC)**

### **Honours/Distinctions**

Dr Kapil Chaudhary was conferred with the "Distinguished Services In Speciality of Anaesthesiology Award" by the Indian Society of Anaesthesiologists Delhi Chapter on the occasion of World Anaesthesia Day in the month of Oct. 2018.

Dr Kapil Chaudhary received Certificate of Excellence Award for reviewing for Indian Journal of Clinical Anaesthesia for year 2017 in Jan. 2018.

### **Publications**

Bhalotra, AR. (2018). Negative pressure pulmonary edema`. *Korean Journal of Anesthesiology*, 71(1), 71-72.

Bhalotra, AR. (2018). A Simple Method of Topicalisation to Facilitate Awake Fiberoptic Nasotracheal Intubation: Experience at a Tertiary Care Hospital. *Turkish Journal of Anaesthesiology and Reanimation*, 46(4), 333-34.

Bhalotra, AR. (2018). Breathing circuit compliance and displayed tidal volume during pressure-controlled ventilation of infants. *Pediatric Anesthesia*, 28(3),301-302.

Bhalotra, AR. (2018). Let us not discard a preexisting epidural catheter for intrapartum caesarean section yet. *Korean Journal of Anesthesiology*, 71 (3), 244-245.



- Bhalotra, AR. (2018). Ketamine with propofol for endoscopic procedures. *Korean Journal of Anesthesiology*, 71(4),334-335.
- Bhalotra, AR. (2018). Reversal of neuromuscular block. *Indian Journal of Anaesthesia*,62,484-5.
- Bhalotra, AR., Thakur, P. (2018). Suction, no suction or passive drainage in pulmonary oedema. *Turkish Journal of Anaesthesiology and Reanimation*, 46(6),480-481.
- Bhalotra, AR. (2019). Are we misusing the ILMA tube? A cause of concern? *Indian Journal of Anaesthesia*, 63(1),76-77.
- Bhalotra, AR. (2018). Beware of the extravasation of muscle relaxant in children. *Pediatric Investigation*, 2(4),269-270.
- Chakraborty, R., Budoo, MS., Kerai, S. (2018). A case of unusual occurrence of nasogastric feed coming through chest tube in a 27 year old polytrauma patient. *Indian Journal of Critical Care* , 22,547-51.
- Chaudhary, K., Mehra, S., Saxena, KN., Wadhwa, B., Sikri, H. (2018). Emergency Cesarean delivery in a parturient with intracranial tumor: Anesthesiologist's Challenge. *MAMC Journal of Medical Sciences*, 4,145-148.
- Choudary, N., Saxena, KN., Wadhwa, B. (2018). Labor analgesia with intradermal sterile water block in a patient with dilated cardiomyopathy. *Journal of Obstetric Anaesthesia & Critical Care*, 8, 96-98.
- Choudhary, N., Kumar, A., Wadhawan, S., Bhadoria, P., Panwar, V. (2018). Retrosternal goiter: Anaesthetic implications and management. *Indian Journal of Clinical Anesthesia*, 5(3),453-456.
- Gahlot, D., Saxena, KN., Singh, R. (2018). Spontaneous severe hypoglycemia:cause of delayed emergence. *MAMC Journal of Medical Science*, 4,159-60.
- Gahlot, D., Saxena, KN., Taneja, B., Mishra, D. (2018).Anesthetic management of an adult with non-traumatic diaphragmatic hernia. *Anesthesia intensive care and pain therapy*, 1(1), 3-3.
- Gautam, VK., Kumar, A., Agarwal, M., Harna, B., Sabat, D. (2019). Comparative evaluation of periarticular infiltration of two cocktail regimens for analgesia in postoperative patients for total knee replacement. *Journal of Arthroscopy and Joint surgery*, 6(2),98-102.
- Gupta, B., Agarwal, M., Sinha, SK. (2018). Recent advances in anesthetic management in repair of Tracheo-esophageal fistula repair. *Indian Anaesthetists Forum*,19 (2), 39-44.
- Gupta, L. (2018). Editorial article: Plagiarism: An Unethical Inscription. *Journal of Regional Anesthesia and Intensive Care*, 1(1), 9-10.
- Gupta, L., Jain, T. (2018). Flip-flop circulation: An unusual cause and case of neonatal desaturation. *Indian Journal of Clinical Anaesthesia*, 5(4), 627-628.
- Gupta, B., Gupta, L. (2018). A rare case of masseter spasm after Propofol. *Indian Anaesthetists Forum*, 19(2), 93-94.
- Gupta, B., Gupta, L. (2018). Total Intravenous Anesthesia (TIVA)-A Brief Review. *Pharmaceutical Science and Analytical Research Journal*, 1(1): 180002.
- Gupta, L., Gupta, B. (2018). Anesthesia for neurosurgery (Part II). *Indian Journal of Clinical Anaesthesia*, 5(3), 299-305.
- Gupta, L., Jain, T. (2018). ANSHI Method: A Newer Approach for Oculocardiac Reflex Prevention. *Anesthesia- Intensive Care and Pain Therapy*, 1(1): 1-1
- Gupta, L., Gupta, H. (2018). Physiotherapy for Respiratory conditions. *Advanced Nursing & Patient Care International Journal*, 1(1), 1-8.

- Gupta, B., Gupta, L. (2019). Significance of outer diameter of endotracheal tube: a parameter less known. *Korean journal of anesthesiology*, 72(1), 72-73
- Gupta, L., Gupta, B. (2018). Anesthesia Considerations for Ophthalmic Surgeries. *Indian Journal of Anesthesia and Analgesia*, 5(5), 869-877.
- Gupta, B., Gupta, L. (2018). Pulmonary Function Tests-Relevance to Anesthesiologists. *Anaesthesia and Critical Care Medicine Journal*, 3(1), 000131.
- Gupta, L., Gupta, B., Bhadoria, P., Verma, UC. (2018). Ease of ProSeal laryngeal mask airway insertion in children (after placement) using suction catheter: A comparison with conventional techniques. *Indian Journal of Clinical Anaesthesia*, 5(2), 216-221.
- Gupta, B., Gupta, L. (2018). Anesthesia and Cardiovascular Disease. *Archives of Anesthesiology*, 1(1), 1-9.
- Gupta, L., Gupta, B., Gupta, A., Jain, R. (2018). Anesthetic considerations in an infant with congenital cystic adenomatoid malformation. *Indian Journal of Clinical Anaesthesia*, 5(1), 156-158.
- Gupta, L., Gupta, B. (2018). Anesthesia for Neurosurgery (Part I). A review Article. *Indian Journal of Clinical Anaesthesia*, 5(1), 1-8.
- Gupta, B., Gupta, L. (2018). Anesthesia Consideration for Renal Disease. A review Article. *ARC Journal of Anesthesiology*, 3(1), 9-14.
- Gupta, B., Gupta, L. (2018). Anesthetic considerations in a case of Fahr and primrose syndrome. *Anesthesiology Open Journal*, 3(1), 1-6
- Gupta, B., Gupta, L. (2018). Anesthesia Considerations for anemia in pregnancy. *International Research Journal of Pharmacy and Medical Sciences*, 1(2), 10-13.
- Gupta, B., Kerai, Khan I. (2018). Organophosphorous-pyrethroid combined poisoning may be associated with prolonged cholinergic symptoms compared to either poison alone. *Indian Journal of Anaesthesia*, 62, 903-5.
- Gupta, D., Kerai S, Budoo, MS. (2018). A fatal and deceiving case of copper sulphate poisoning. *Indian Journal of Anaesthesia*, 62, 819-20.
- Gupta, B., Kerai, S. (2018). Amlodipine toxicity complicated by concurrent medications. *Korean Journal of Anesthesiology*, 71, 489-90.
- Gupta, B., Kerai, S. (2018). Is irrational use of intralipid emulsion justified in amlodipine toxicity. *Korean Journal of Anesthesiology*. Available at doi:10.4097/kja.d.18.00152.
- Gupta, B., Kerai, S. (2018). Warranted use of fiberoptic in elective percutaneous dilatational tracheostomy. *Indian Anaesthetists Forum*, 19, 34-5.
- Kohli, M., Aswin, A., Panwar, V., Wadhawan, S. (2018). Management of unexpected subglottic stenosis in a neonate with congenital tracheoesophageal fistula. *Indian Journal of Case Reports*, 4(4), 336-337.
- Manohar, M., Gupta, B., Gupta, L. (2018) Closed-loop monitoring by anesthesiologists-a comprehensive approach to patient monitoring during anesthesia. *Korean Journal of Anesthesiology*, 71(5), 417-418.
- Mishra, D., Saxena, KN and Wadhwa, B. (2018). An unusual case of methemoglobinemia. *Madridge Journal of Case Reports & Studies*, 2(1), 1000113.
- Saxena, KN., Chopra, N. (2018). Propofol for Conscious Sedation for Fiberoptic Nasotracheal Intubation: Comparison with Fentanyl-Midazolam Combination. *Anaesthesia and Critical Care Medicine Journal*, 3(2), 000133.

Saxena, KN., Saha, M., Mishra, D., Wadgwa, B. (2018). Anesthetic management of patients with low ejection fraction for TKR: A case Series, *Journal of Anesthetic Research and Pain Medicine* doi.org/10.28967/jarpm.2019.01.19001.

Saxena, KN., Wadhwa, B., Mishra, D. (2019). Anaesthetic management of caesarean section in parturients with severe mitral stenosis: a case series. *Journal of Obstetric Anaesthesia and Critical Care*, 9(1), 46-49.

Saxena, KN. (2018). Retropharyngeal Abscess Managed With Ketamine - A Case Report. *Advancements in Case Studies*, 1(3). AICS.000513.2018. doi:10.31031/AICS.2018.01. 000513.

Saxena, KN., Mandal, A., Wadhwa, B. (2018). Anesthetic Management in a Patient with Ebstein Anomaly. *Journal of Anesthesiology and Pain Research*, 1, 105.

Singh, A., Gupta, L. (2018). Supraglottic Airway Devices for Laparoscopic Surgery – a Short Review. *BAOJ Anesthesia*, 2(1), 005.

Singh, A., Deepak, GP, Gupta, L. (2018). Broken hypodermic needle prior to spinal needle insertion: An unusual complication. *European journal of pharmaceutical and medical research*, 5(4), 412-413.

Singh, A., Gupta, L. (2018). Supraglottic Airway Devices: A Knock of Future. *Anaesthesia and Critical Care Medicine Journal*, 3(1), 000129.

Singh, A., Bhalotra, AR., Anand, R. (2018). A comparative evaluation of ProSeal laryngeal mask airway, I-gel and Supreme laryngeal mask airway in adult patients undergoing elective surgery: A randomized trial. *Indian Journal of Anaesthesia*, 62 (11), 858-864.

Thakur, P., Bhalotra, AR., Chaudhary, K. (2018). Anesthesia in a patient with Montgomery tube in situ: difficult to easy! *Paediatric Anaesthesia*, 28(9), 825

#### **Seminars/Conferences organized**

Monthly Clinical Meet of ISA, Delhi Chapter Nov. 2018

Changing trends in Obstetric Anaesthesia , MAMC, March 2019

Workshop on ultrasound guided regional anaesthesia , MAMC, May, 2019

North Zone PG Assembly, in collaboration with G B Pant Hospital, Feb. 2018

National Level PG Refresher Course(Six day refresher course), Aug.- Sept. 2018

Two day National level Conference on “ Facts and Myths in Anesthesia” Oct. 2018

#### **Other significant information**

Dr Amit Kohli

Chief coordinator and Instructor of Advanced Airway Skills Workshop at Gaja Raja Medical College, Gwalior, MP, July, 2018;

Chief coordinator and Instructor of Advanced Airway Workshop at IGMC, Shimla in Sept. 2018;

Chief coordinator and Instructor of Airway management Workshop at TMC, Moradabad on 2<sup>nd</sup> December 2018;

Chief coordinator and Instructor of Advanced Airway Skills Workshop at LN Medical College, Bhopal, Dec. 2018.

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## ANAESTHESIOLOGY (LHMC)

### Major Activities and Achievements

Department of Anesthesia LHMC provides anesthesia services to various surgical specialties such as Obstetrics, Gynecology, general Surgery, Paediatric Surgery, Orthopedics, Eye, ENT, Dental and orofacial maxillary surgery, ECT, radiological procedures besides managing surgical ICU, Pain and Palliative care clinic. Post graduate training for MD Anaesthesia and Pre Trauma Technician Training is provided to students each year. The Department is actively pursuing initiation of DM Paediatric Anesthesia course in the coming academic session. ACLS/BLS courses accredited by American Heart Association are conducted by Department of Anaesthesia each year by its trained faculty.

### Honors/Distinctions

Dr. Nishant Kumar won the best reviewer for IJA award at ISACON 2018 at AGRA held in Nov. 2018

### Publications

Hayaran, N., Tanwar, S., Singh, R., Sardana, R. (2018). Dilatational force in percutaneous tracheostomy: how much is too much? *J. Clin Anaesth* 52, 51-52

Kumar, N., Sardana, R., Jain, A. (2019). Inguinal canal block for laparoscopic hernia repair: Case series. *Journal of Medical College*, 9:55-57.

Kumar, N., Singh, R., Sharma, N., Jain, A. (2018). Atypical presentation of posterior reversible encephalopathy syndrome: Two cases. *J Anaesthesiol Clin Pharmacol*, 34, 120-122.

Kumar, N. (2018.) Testing Times: Routine to indicated! *Anesth Analg* 2018; 126:1451-2.

Singh, A., Gupta, A., Datta, P K., Pandey, M. (2018). Intrathecal levobupivacain versus bupivacaine for inguinal hernia surgery: A randomized controlled trial. *KJA*.

Singh, A., Iyer, KV., Gupta, A. (2018). Airway management in case of a large congenital rannula. *SJA* 12, 1.

Singh, M., Singh, R., Jain, A. (2018). An observational study to evaluate the effect of different epidural analgesia regimens on dynamic pain scores in patients receiving epidural analgesia for postoperative pain relief after elective gynaecological surgery. *J Anaesthesiology Clin Pharmacology* 2018; 34: 362-37.

Singh, R., Hayaran, N., Nagar, D., Jain, A. (2018). Spectrum of neurological complications in eclampsia in a tertiary care hospital in India. *J Obstet Gynaecol Can.* 40, 876-882.

### Journals

Dr Nishant Kumar is Assistant Editor, Indian Journal of Anaesthesia

### Organized

Paediatric Anaesthesia CME: The newborn and the neonate. LHMC April 2018

Acupuncture Training workshop LHMC, July, 2018

ISA Monthly Clinical Meet LHMC Oct, 2018

### Seminar/Conference Presentations (National /International)

Dr. Ranju Singh

Lecture on “Work Life Balance for A Physician”, AOA, Jodhpur Sept. 2018

Lecture on Care of Systems and Indwelling Devices: Best Practices Certificate Course on Infection Prevention and Control, for Nurses organized by DSPRUD, MAMC Delhi Nov., 2018

Talk on Ventilator Associated Pneumonias Hospital Infection Control Program, Dept of Microbiology, LHMC, Delhi Dec., 2018

Dr. Garima Agrawal took a lecture on Perioperative management of a Syndromic child Annual National conference of RSACPCON, Rohtak in March, 2019

**Faculty Strength: 18**

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**ANAESTHESIOLOGY (GIPMER)**

**Publications**

Choudhuri, AH., Ahuja, B., Biswas, PS., Uppal. (2019). Epidemiology of Multidrug Resistant Infections after Inter ICU Transfer in India., *Indian J Crit Care Med*, 23, 1-6.

Choudhuri, AH., Khurana, P., Biswas, PS., Uppal, R. (2019). Epidemiology and risk factors for multidrug-resistant bacteria in critically ill patients with liver disease., *Saudi J Anaesth*, 12,389-94.

Dhir, A., Tempe, DK. (2018). Anemia and patient blood management in cardiac surgery: literature review and current evidence., *J Cardiothorac Vasc Anesth*, 32, 2726-42.

Khilnani, GC., Zirpe, K., Hadda, V *et al.* (2019). Guidelines for Antibiotic Prescription in Intensive Care Unit (For the Expert Committee to formulate National Guidelines for Antibiotic Prescription in ICU), *Ind J Crit Care Med*, 23 (Suppl 1), S1-S63.

Malik, I., Ganjoo, P. (2019). Perioperative significance and management of electrocardiographic abnormalities in patients undergoing cerebral aneurysm surgeries., *Neurol India*, 67, 427-32

Motwani, SK., Datt, V., Tempe, DK. (2018). Severe Mitral Regurgitation Due to Pacing in Patient Post Aortic Valve Replacement. A Case Report., *World Journal of Cardiovascular Surgery*, 8, 22-27.

Sharma, MU., Ganjoo, P., Jain, S. (2018). Making endovascular neurosurgery safer: Role of the neuroanesthetist., *J Neuroanaesthesiol Crit Care*, 5(3), 133-140.

Tandon, MS., Khurana, P, Anaesthetic. Implications in Thoracolumbar Spine Trauma Patients. *Essentials of Neurotrauma*. Francis and Taylor. Edited by Dr Hemanshu Prabhakar

Tempe, DK., Sujith, CN., Datt, V *et al.* (2018). A new right atrial mass following cardiopulmonary bypass mimicking a thrombus., *Ann Card Anaesth*, 21, 203-4

Tempe, DK., Malik, I. (2018). History of cardiac anaesthesia in India., *J Cardiothorac Vasc Anesth*, 32, 2344-55.

Tempe, DK., Dhir, A. (2019). Ethnicity and Health Care., *J Cardiothorac Vasc Anesth*, 33(2), 394-95

Tempe, DK., Khurana, P. (2018). Optimal blood transfusion practice in cardiac surgery., *J Cardiothorac Vasc Anesth*, 32, 2743-45.

Tempe, DK. (2018). A quick and simple method to assess reliably the left ventricular function with TEE: Is MAPSE the answer. *J Cardiothorac Vasc Anesth*. pii: S1053-0770(18)31097-8.

Tempe, DK. (2018). The complexity of pulmonary hypertension and its prognostic importance in patients with valvular heart disease., *J Cardiothorac Vasc Anesth*, pii, S1053-0770(18)30919-4

**Journals**

Associate Editor – One faculty member for one journal

Associate Editorial Board Member - One faculty member for one journal

Section Editor - One faculty member for one journal

Editorial Board Member – Three faculty members for eight journals

### **Conferences Organized**

Academic Workshop Accordion – Conference of Critical Care, Metropolis, New Delhi Dec., 2018

### **Seminar/Conference Presentations**

Anirban Hom Choudhuri delivered a talk on Scalars & loops in mechanical ventilation UCMS & GTB Hospital. Delhi. Jan, 2019

DK Tempe delivered an oration, "Changing trends in anaesthetic management of patients with CAD undergoing noncardiac surgery , North Zone Association of Cardiothoracic Anaesthesiologists at Ludhiana. June, 2018.

Priyanka Khurana delivered a lecture on Regional Anaesthesia in patients with Neurological Disease. North Zone ISACON and ISACON Delhi. Apr. 2018.

Vishnu Datt delivered a lecture on postoperative care of major vascular surgery in 22nd IACTA Conference, Swabhumi The Heritage, Kolkata, West.

### **Faculty Strength- 13**

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## **BIOCHEMISTRY (LHMC)**

### **Major activities and achievements**

Organized workshops and CMEs on recent advances

### **Publications**

Bhardwaj S, Mondal S, Bandhu S, Chaudhury D, Malik E, Swami G, Monga M, Adlakha M. (2018) Cognitive functions in patients of T2DM with peripheral neuropathy, an observational cross sectional study done in India. *International Journal of Current Research and Review* DOI: 10.7324/IJCRR..1073

Chauhan P, Chetiwal R. (2018). Renin Angiotensin system and pulmonary hemodynamics in chronic obstructive pulmonary disease. *International journal of advance in medicine*, 5(2), 404-408

Datta Rashmi R, Malik E, Baruah A, Debnath P, Jain A. Endocrinopathy in thalassemia major patients on chelation therapy: A study of North Indian population. *JIMSA*. Vol.-30, No. 2

Dawar R, Sharma M, Singh M, Chauhan P, Tripathi S, Jain A. (2018). Hyperthyroidism in gestational Trophoblastic disease. *Global Journal of Research Analysis*. 7 (4)

Garg M, Jain A, Goswami B, Puri M. (2018) Study of Peroxisome Proliferator Activated Receptor  $\gamma$  Pro12Ala Polymorphism in Women with Polycystic Ovary Syndrome *Indian Journal of Medical Biochemistry*, 22(2):126-131

Gogoi P, Debnath E, Changkakati R. (2018) Serum /ascites Albumin gradient (SAAG), A very costeffective and reliable first line Diagnostic parameter in the differential diagnosis of ascites- a study in a North –East Indian population. *Intn J Res rev*, 5(12), 215-19

Kumawat R., Gowda S., Debnath E., Rashid S., Niwas R., Gupta Y., Upadaya A., Suri A., Chandra P., Gupta D., Lakshmy R., Sarkar C., Sinha S., Chosdol K. (2018) Association of Single Nucleotide Polymorphisms (SNPs) in Genes Encoding for Folate Metabolising Enzymes with Glioma and Meningioma in Indian Population. *Asian Pacific Journal of Cancer Prevention*, 19(12), 3415-3425.

Meena MK, Dey Sarkar P, Kachhawa K, Kumar S. (2018) Serum Vitamin-D concentration and other biomarkers status in patients with acute myocardial infarction at a tertiary cardiac care centre. *European journal of biotechnology and bioscience*, 6(5), 76-79.

Meena MK, Khaliq SM, Kachhawa K, Kumar S. (2018). Study of serum lipid profile and insulin resistance in morbid obese subjects before and after Sleeve gastrectomy. *International journal of medical and health research*. 4(10), 131-135.

Meena MK, Sharma S, Bhasin H, Jain P, Kapoor S, Jain A, Aneja S. (2018) Vitamin B12 Deficiency in Children with Infantile Spasms: A Case-Control Study. *Journal of Child Neurology*, 33 (12),

Singh K, Singh R, Chandra S, Tyagi S (2018). Paraoxonase-1 is a better indicator than HDL of Atherosclerosis- A Pilot Study in North Indian population. *Diabetes Metab Syndr* 12 (3): 275-278.

Tripathi RK, Debnath PR, Shah S, Tripathi D, Debnath E. (2018.) Therapeutic effect of table salt on umbilical granuloma in infants- north Indian experience. *IP Int J Med Pediatr Oncol*,4, 77-79

### **Research Projects**

Dr. Anju Jain, Dr. R. M. Pandey, Dr. Anupam Prakash, Dr. Pikee : (ICMR 2016, 34 lakhs) A randomized control trial to compare the efficacy of N Acetyl Cysteine, metformin or placebo therapy on clinical, hormonal, and oxidative stress profile of infertile women with Polycystic Ovary Syndrome along with clomiphene citrate.

Dr Ritu Singh (DHR MoHFW 29 lakhs): Study of Proteomic and genetic biomarkers of inflammatory and matrix remodelling pathways having significance in myocardial infarction

Dr. Ritu Singh (DBT Rs 1 lakh): Study of genetic polymorphisms and gene expressions of Interleukin-6, Interleukin-10 and Tumor necrosis factor-alpha in patients with Type 2 Diabetes.

### **Seminars organized**

Guest lecture on “Nutrition treatment for Diabetes” , Feb., 2018

“Workshop on Genetic Methodologies” LHMC & SSKH, New Delhi. Aug. , 2018

### **Conferences organized**

Pre-conference workshop “Real time PCR” as a part of AMBICON 2018, LHMC, New Delhi. Nov., 2018.

26<sup>th</sup> Annual National Conference of Association of Medical Biochemists of India held from LHMC, New Delhi. Nov., 2018.

CME on Recent Updates and Future Possibilities in 24 hours KSCH lab, Dec., 2018

### **Seminar/conference presentations**

Ekta Debnath delivered an oral presentation Prevalence of thyroid Autoimmunity in children and adolescents with Type 1 Diabetes mellitus and their siblings in 26th Annual National Conference of Association of Medical Biochemists of India, LHMC, N Delhi, Nov., 2018.

Ritu Singh delivered an Oration "Risk factors of Atherosclerotic instability - Studies on patients of ischemic stroke and myocardial infarction in tertiary care hospitals Indian Society for Atherosclerosis Research (ISARCON ) 2019, GIPMER Oct., 2018.

Smita Tripathi delivered a Lecture on Ethics in Clinical Laboratory Practices, AMBICON, Delhi, Nov., 2018,.

### **Faculty strength – 8**

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## BIOCHEMISTRY (MAMC)

### Major Activities and Achievements

For the best research work the department was awarded the College's Flemming Trophy Feb., 2019. The department has conducted five workshop/CMEs during this period.

### Honours/Distinctions

Dr T.K. Mishra was conferred fellowship of FAMBI by Association of Medical Biochemists of India.

Dr BC Koner delivered "Sr S Gopal Krishnan oration" on topic "Pesticide-induced Diabetes Mellitus Current trend in research and future perspectives in AMBI, 2018 at LHMC, New Delhi, Nov., 2018

### Publications

Agrawal, P., Verma, N., & Sethi, S. (2018). Level of IMA in newly diagnosed untreated hypothyroid subjects diagnosed during routine screening at Tertiary Care Hospital in North India. *International Journal of Clinical Biochemistry and Research*, 5(2), 310-313.

Ahirwar, A. K., Jain, A., Singh, A., Bhardwaj, S., Goswami, B., Bhatnagar, M. K., & Bhattacharjee, J. (2018). Interaction of iNOS Gene (C150T) Polymorphism and Endothelial Dysfunction in Pathophysiology of Metabolic Syndrome. *The Tokai journal of experimental and clinical medicine*, 43(1), 24-29.

MA, Guru SA, Mir R, Waza AH, Zuberi M, Sumi MP, Bodeliwala S, Samadhiya A, Puri V and Saxena A. (2018) Role of SCN1A and SCN2A Gene Polymorphisms in Epilepsy Syndromes-A Study from India. *J NeurolNeurosci.*, 9 (1), DOI: 10.21767/2171-6625.1000238.

Gowda, R. H., Sukumar, G. M., & Gowda, S. H. (2019). Association between metabolic risk, oxidative stress and rotating shift work in a tertiary health care facility. *Clinical Epidemiology and Global Health*.

Jamatia, E., Lali, P., Koner, B. C., Dhanwal, D. K., Masroor, M., Krishnamurthy, K., & Singh, A. (2018). OLR1 gene polymorphism and oxidized LDL levels in metabolic syndrome in Indian population. *Indian journal of endocrinology and metabolism*, 22(4), 530.

Kumawat, R., Gowda, S. H., Debnath, E., Rashid, S., Niwas, R., Gupta, Y., ... & Lakshmy, R. (2018). Association of Single Nucleotide Polymorphisms (SNPs) in Genes Encoding for Folate Metabolising Enzymes with Glioma and Meningioma in Indian Population. *Asian Pacific journal of cancer prevention: APJCP*, 19(12), 3415.

Krishnamurthy, K., Mishra, T. K., Saxena, A., Daga, M. K., Khurana, N., Masroor, M., & Jamatia, E. (2018). Evaluating NISCH and CDH1 Promoter Hypermethylation in Nonsmokers, Cancer Free Smokers and Lung Cancer Patients: A Case Control Study. *Indian Journal of Clinical Biochemistry*, 1-7.

Prasad, J., Goswami, B., Gowda, S. H., Gupta, N., Kumar, S., Agarwal, K., ... & Chauhan, A. (2018). Does Hypoxia-Inducible Factor-1  $\alpha$  (HIF-1 $\alpha$ ) C1772T polymorphism predict short-term prognosis in patients with oral squamous cell carcinoma (OSCC)?. *Journal of Oral Pathology & Medicine*, 47(7), 660-664.

Singh, V. K., Sarkar, S. K., Saxena, A., & Koner, B. C. (2019). Sub-toxic exposure to lindane activates redox sensitive kinases and impairs insulin signaling in muscle cell culture: the possible mechanism of lindane-induced insulin resistance. *Toxicology in Vitro*, 54, 98-104.

Shanmugasundaram, B., Singh, V. K., Shrestha, S., Sarkar, S. K., Jeevaratnam, K., & Koner, B. C. (2018). Effect of consumption of unheated and thermally-modified sesame and coconut oils on inflammation mediated metabolic disorders in Wistar rats.

Shanmugasundaram, B., Singh, V. K., Shrestha, S., Sarkar, S. K., Jeevaratnam, K., & Koner, B. C. (2019). Comparative Evaluation of Peroxidation of Sesame and Cottonseed Oil Induced by Different Methods of Heating.



S. Shrestha S, Singh VK, Sarkar SK, Shanmugasundaram B, Jeevaratnam K, Koner BC (2018) Role of oxidative stress, proinflammatory cytokines, leptin and adiponectin in organophosphorus- induced insulin resistance in wistar albino rats. *Asian Journal of Biochemical and Pharmaceutical research* 2(8):58-66

Singh VK, Sarkar SK, Shrestha S, Saxena A, Koner BC (2018) Can whole blood glucose uptake be used for detecting insulin resistance-inducing property of organochlorine pesticides? *Vista International Journal of Energy and Environmental Engineering* 3, 57-62

Shrestha, S., Kumar Singh, V., Kumar Sarkar, S., Shanmugasundaram, B., Jeevaratnam, K., & Chandra Koner, B. (2018). Effect of sub-toxic exposure to Malathion on glucose uptake and insulin signaling in L6 myoblast derived myotubes. *Drug and chemical toxicology*, 1-8.

Shrestha, S., Singh, V. K., Sarkar, S. K., Shanmugasundaram, B., Jeevaratnam, K., & Koner, B. C. (2018). Effect of sub-toxic chlorpyrifos on redox sensitive kinases and insulin signaling in rat L6 myotubes. *Journal of Diabetes & Metabolic Disorders*, 17(2), 325.

Saxena, P., Verma, P., & Goswami, B. (2017). Comparison of diagnostic accuracy of non-fasting DIPSI and HbA1c with fasting WHO criteria for diagnosis of gestational diabetes mellitus. *The Journal of Obstetrics and Gynecology of India*, 67(5), 337-342.

Verma, R. (2017). Role of Active Vitamin D3 in Immunity. *Indian Journal of Medical Biochemistry*, 21(2), 166-175.

Waza, A. A., Hamid, Z., Ali, S., Bhat, S. A., & Bhat, M. A. (2018). A review on heme oxygenase-1 induction: is it a necessary evil. *Inflammation Research*, 67(7), 579-588.

Waza, A. A., Hamid, Z., Bhat, S. A., Shah, N. U. D., Bhat, M., & Ganai, B. (2018). Relaxin protects cardiomyocytes against hypoxia-induced damage in in-vitro conditions: Involvement of Nrf2/HO-1 signaling pathway. *Life sciences*, 213, 25-31.

### **Journals**

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board: 2

### **Research Projects**

GNCT of Delhi, Rs 1.5 lakhs, Effect of fenugreek (*Trigonella foenum-graceum* L) seeds extract and cinnamon (*Cinnamomum verum*) extract on reversal of endoplasmic reticulum stress (ER) induced beta cell dysfunction in MIN6 cell line”, Binita Goswami

NCT of Delhi, Rs 1.5 lakhs, “Effect of Aloe Vera extract on natural aging process in Fibroblast cell line” , Srinivas HG

GNCT of Delhi, Rs 1.5 lakhs, “Effect of Fenugreek and cinnamon bark extract on pancreatic beta cell function-an in vitro study on MIN6 mice cell line, Maheshwari K

### **Seminars Organized**

Dhritiman, delivered a talk on Microarray in the Department of Biochemistry, MAMC, Jan., 2018.

Iman Bhattacharjee, delivered a talk on Next generation Sequencing by Illumina systems in the Department of Biochemistry, MAMC, Aug., 2018.

### **Conferences Organized**

Two day workshop entitled “Molecular techniques in diagnosis and monitoring of Myeloproliferative Neoplasms” , Sept. 2018.

A symposium cum workshop on “Coagulation Profile and Platelet Aggregation: An Update” Nov., 2018.

A CME on “Role of LAB Diagnosis in Immunological disorders”. Mar., 2019.

2<sup>nd</sup> Workshop on “Cell Culture techniques” Mar., 2019.

#### **Seminar/Conference Presentations**

Mamta Pervin Sumi et al. presented Sensitivity of PDGFRA mutations to imatinib may contribute to the risk of development of thrombocytopenia in CML patients. the Japanese Society of Medical Oncology Annual Meeting Maulana Azad Medical College and Associated Lok Nayak Hospital, India. Dec., 2018.

Rajani Kumawat1 et al. presented Association of Mthfr Gene Polymorphisms with Glioma and Meningioma Patients in Indian Population. ESMO, Singapore, Nov., 2018.

Srinivas H was Invited key note speaker and chief guest for National Conference, "NEUROBIOCON 2019", Sree Balaji Medical College and Hospital, Chennai

#### **National/International MoUs Signed**

Multicentric screening of Breast cancer patients to determine efficiency and to assess sensitivity and accuracy of Pandora CDx mammoalert in screening of breast cancer.

B. Goswami with Pandora CDx, California, USA

#### **Students under Exchange Programme**

Mirza Masroor from Jamia Hamdard, New Delhi

#### **Placement Details (Number and percentage of students placed)**

6(4 MD, 2 PhD), 100% placement

#### **Extension and Outreach Activities**

All the senior residents, post graduates and technical staff participated in the ongoing Pulse Polio immunization program of Govt of NCT of Delhi.

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

Ph.D. - 2

M.D. - 4

#### **Faculty Strength: 8**

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### **BIOCHEMISTRY (VPCI)**

#### **Major activities and achievements**

The department is involved in providing diagnostic services for the patient care, Research, Teaching, Supervising M.D. Medical Biochemistry students. Diagnostic Services are provided to indoor & outdoor patients, samples analyzed by AU 480 AutoAnalyzer, BECKMAN COULTER & Dirui CS-T240 Biochemistry Analyzer. The total no. of tests from 01.04.18 to 31.03.19 = 54,762.

#### **Honors/Distinctions:**

Dr S K Bansal was nominee of Vice-Chancellor, University of Delhi, to represent the University under Statute 30(1) (C) (i) of Statutes of the University on the Governing Body of School of Rehabilitation Sciences for a period of one year w.e.f. 23.01.2018.

Dr. Vishwajeet Rohil was the Guest of Honour at the National Conference held by Institute of Management Studies (IMS) University, Ghaziabad Nov., 2018.

**Publications:**

Aggarwal, T., Wadhwa, R., Rohil, V., & Maurya, P. K. (2018). Biomarkers of oxidative stress and protein–protein interaction in chronic obstructive pulmonary disease. *Archives of physiology and biochemistry*, 124(3), 226-231.

Singh Patidar, B., Meena, A., Kumar, M., Menon, B., Rohil, V., & Kumar Bansal, S. (2018). Adenosine Metabolism in COPD: A Study on Adenosine Levels, 5'-Nucleotidase, Adenosine Deaminase and Its Isoenzymes Activity in Serum, Lymphocytes and Erythrocytes. *COPD: Journal of Chronic Obstructive Pulmonary Disease*, 15(6), 559-571.

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*, 10(1), 6623 – 6630.

**Research Projects:**

Dr S K Bansal : (ICMR-Rs. 21.00 Lakhs) SRF (Mr. Anil Meena) “A study on *CRHR1* and *GR* gene polymorphism and their correlation with the expression of various inflammatory cytokines in asthma in North Indian population” (28.01.2014 to 27.01.2019).

Dr S K Bansal (ICMR-SRF Rs. 7.20 Lakhs) (Mr. Manoj Kumar) “Characterization of proteins differentially expressed erythrocyte membrane in bronchial asthma : Identification and purification of one protein and its correlation with severity of the disease. (05.09.2018 -for Two years)

**Seminar/Conference Presentations**

S.K. Bansal delivered lecture entitled ‘Mapping the Footprints of NTM Infection: The neglected mycobacterial disease VP Chest Institute, University of Delhi, Nov., 2018.

**Other Inter-Institutional Collaboration**

Dr. Vishwajeet Rohil was Co-Supervisor for PhD theses of other Institutions as listed below:

Ms. Karuna Sharma, Ph.D. Medical Biochemistry was awarded Ph.D. degree on 19<sup>th</sup> Nov. 2018. Title of Theses: “Genetic Polymorphism of Matrix Metalloproteinases-9 (MMP-9) and its correlation with the Maternal Serum level of Biomarkers (PAPP-A, free  $\beta$ -hCG) and Proinflammatory Cytokines in Preeclampsia in North Indian Population”.

Ms. Smriti Gupta Ph.D. Biochemistry SRM University, Delhi-NCR, Sonapat, Haryana Title of Theses: “Understanding Chronic Obstructive Pulmonary Disease by studying Single Nucleotide Polymorphism in Delhi-NCR Population”.

**Faculty Strength - 02****Other Significant information**

Dr S K Bansal trained four Students from various organizations.

Nodal Officer of the VPCI’s Multi-Disciplinary Research Unit (MRU), Member Secretary, Extended Research Advisory Committee (RAC) and Chairman of Research Advisory Committee (RAC) for VPCI Multidisciplinary Research Unit (MRU); Nodal Public Grievances Officer of VPCI; Nodal Officer for Swachhata Action Plans VPCI; Appellate Authority – RTI, VPCI; Vigilance Officer, VPCI; Chairman, Scientific Review Committee, VPCI ; Chairman, Institutional Biosafety Committee, VPCI , Chairman, Biomedical Waste Management Committee, VPCI, Officer-in-Charge, MCI Cell, VPCI, Chairman, AMC Committee; Chairman, Committee for AMC-LAN; Chairman, VPCI Swachhata Abhiyan Samiti ; Chairman, Library Advisory Committee, VPCI; Convener, Research Cell, VPCI.

Member, Grievance Redressal Committee [Under the UGC (Grievance Redressal) Regulation, 2012].

Dr.S. K.Bansal's work on erythrocyte membrane protein profile of asthmatics and healthy controls showed the presence of 97 proteins consisting of  $\geq 2$  unique peptides. Further analysis showed several PTMs (phosphorylation and acetylation) in 9 proteins, which may be responsible for cellular activities including biological processes, metabolic functions, cell morphology, shape and size etc. They were distinctly present or absent in different phenotypes of asthma. The protein-protein interactions analysis showed glyceraldehyde 3 phosphate dehydrogenase to be an important protein, which is known to play an important role in glycolysis and in maintaining the balance between oxidant and antioxidant status in asthma

In our another study on genetic polymorphism on *CRHR1* gene in asthmatics and healthy controls, we observed the presence of twenty five SNPs in it (including three novel SNPs reported for the first time from our laboratory). Among these twenty five SNPs, sixteen were found to be significantly associated with asthma.

Dr. Vishwajeet Rohil

Imparted training to 6 students of other prestigious institutes.

Outcome of research work showed serum TNF- $\alpha$  was found to be directly proportional to the COPD severity and inversely proportional to FEV1/FVC ratio of the patients. ADAM33 levels showed significant difference between smoker COPD and non-smoker COPD (P value<0.05) elucidating its crucial role in lung remodeling.

In the study, the SNPs in the gene ADAM33 linked to COPD susceptibility identified: SNPs S1 and ST+5 showing significant difference in patient groups (COPD) compared to control.

Interaction between protein ADAM33 known/unknown Inhibitors via Molecular Docking using Schrodinger were studied. Curcumin derivative compounds were found to be good natural inhibitors for MMPs.

In another study, MMP-9 Genetic Polymorphism (-1562C/T) and first trimester serum Levels with Pregnancy induced Hypertension: MMP9 -1562 C/T polymorphism was not found to have association with lowering of MMP9 during first trimester and development of pregnancy hypertension.

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## BIOCHEMISTRY (UCMS)

### Major activities and achievements

The Department has made significant progress in undergraduate and post graduate training as well as research. Many of our 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 four ongoing projects in the Department of Biochemistry. The faculty members have published more than ten research articles in peer reviewed International/National journals of high impact factor. Dr. S.B. Sharma, Director-Professor in Deptt. of Biochemistry has recently published Essentials of Biochemistry for PG NEET and competitive Medical Examinations. 1<sup>ST</sup> Edition. 2018. ACADEMA Publication. She has also done the chemical synthesis of anti hyperglycemic compound and applied for the patent through ICMR patenting cell.

### Publications:

Chandra N, Mehndiratta M, Garg S, Puri D. (2018) Current state of Medical Education in India: a perspective. *Ind J of Med Biochem*, 22(2),163-165.

Chawla, D., Kar, R., Gupta, B., Halder, S., Garg, S., Mehndiratta, M., ... & Agarwal, R. (2018). Role of Survivin and p53 Expression in Response of Primary Culture of Ovarian Cancer Cells to Treatment With Chemotherapeutic Agents. *International Journal of Gynecologic Cancer*, 28(6), 1239-1246.

Gupta, S., Sharma, M., Mehndiratta, M., Kalra, O. P., Shukla, R., & Gambhir, J. K. (2018). Association of Plasma Uric Acid with Inflammatory and Oxidative Stress Markers in Diabetic Nephropathy in North Indian Population: A Case Control Study. *Journal of Clinical & Diagnostic Research*, 12(7).

Garg, S., Mehndiratta, M., Kar, R., & Malik, P. (2019). Interrelationship between nuclear factor-erythroid-2-related factor 2, NADPH quinone oxidoreductase and lipoprotein-associated phospholipase A2 expression in young patients of metabolic syndrome. *International Journal of Diabetes in Developing Countries*, 39(1), 74-81.

Khurana, N., Sharma, P., Bhagat, S., & Sharma, S. B. (2018). Effect of a novel succinamic acid derivative as potential anti-diabetic agent in experimental diabetic rats. *Journal of Drug Delivery and Therapeutics*, 8(6-s), 57-62.

Jahid, M., Chawla, D., Avasthi, R., & Ahmed, R. S. (2018). Association of polymorphic variants in IL1B gene with secretion of IL-1 $\beta$  protein and inflammatory markers in north Indian rheumatoid arthritis patients. *Gene*, 641, 63-67.

Jahid, M., Avasthi, R., & Ahmed, R. S. (2018). Interleukin10-1082 A/G polymorphism: Allele frequency, correlation with disease markers, messenger RNA and serum levels in North Indian rheumatoid arthritis patients. *Clinical biochemistry*, 55, 80-85.

Khan, M. A., Ahmed, R. S., Chandra, N., Arora, V. K., & Ali, A. (2019). In vivo, Extract from *Withania somnifera* Root Ameliorates Arthritis via Regulation of Key Immune Mediators of Inflammation in Experimental Model of Arthritis. *Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Inflammatory and Anti-Allergy Agents)*, 18(1), 55-70.

Sharma, D., Garg, S., Mehndiratta, M., Madhu, S. V., & Puri, D. (2019). Association of apolipoprotein AV with mRNA expression of IL-6 and NF- $\kappa$ B genes in type 2 diabetes with hypertriglyceridemia: a possible link with inflammation. *International Journal of Diabetes in Developing Countries*, 39(2), 308-314.

### **Research projects**

ICMR Rs. 50,00,000 (Approx.) "Design and synthesis of alpha hydroxy succinamic acid isolated from *Eugenia jambolana* and its structural analogs for the assessment of the anti diabetic potential in STZ induced diabetic rat", SB Sharma, 2015-2019

AYUSH Rs. 47,00,160/- 3 years Experimental studies to assess the efficacy of commonly used Unani formulations for improvement of cognitive functions and neuroprotection, Rafat S Ahmed, 2016-2019

ICMR Rs 22,31,260/, 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. Mohit Mehndiratta, 2017-2019

DBT Rs 23,57,000 Primary cultures of epithelial ovarian cancer as a tool to detect resistance to chemotherapeutic agents – a pilot study. 2015 to 2019, Rajarshi Kar.

### **Seminar/conference presentations ( International/National) (Selected)**

Mohit Mehndiratta participated and acted as a resource faculty in the Thesis Writing Workshop held at UCMS and GTB hospital, Delhi. March 2019.

Rajarshi Kar presented an invited lecture at North Zone ACBICON 2018 at All India Institute of Medical Sciences, Jodhpur, Rajasthan, India. April 2018.

Rajarshi Kar presented an invited lecture at 38th Annual Convention of Indian Society for Cancer Research at Chandigarh. March 2019.

Rafat Ahmed was invited Speaker, Chairperson, at 45th National Conference of ACBICON 2018 Goa, October 2018.

SB Sharma was Chairperson at ISARCON, JIPMER, Pondicherry, October 2018.

### **Faculty Strength – 6**

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## CARDIOLOGY

### (G. B. PANT INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION & RESEARCH)

#### Major achievements

Department of Cardiology aims to bring heart care of best standards within reach of every individual. The year 2018-2019 has been an important milestone. Basic research in genetics of hypertension, rheumatic heart disease & ischemic heart disease were published in major peer reviewed international journals. Members from our department participated in major international and national cardiology conferences as Faculty. We conducted Live Cases and Workshop for teaching purposes which were transmitted internationally.

#### Honours/ Distinctions

Dr Girish MP got elected as Joint Secretary of Cardiology Society of India- Delhi Branch.

Dr. Mohit Gupta was selected as Executive Editor of Indian Heart Journal.

Dr. Mohit Gupta got elected as Secretary of Cardiology Society of India- Delhi Branch.

Dr. Sanjay Tyagi and Dr. Vijay Trehan were invited to deliver lecture in International Conferences like International college of angiology, Tokyo 2018, NIC-2018, India Live-2018, CSICON-2018, Delhi CSI 2018.

Dr. Vimal Mehta attended the investigators meet of American College of Cardiology held at Washington USA for the International Fourier Study.

#### Publications

Gupta, M. D., Girish, M. P., Sarkar, P. G., Gupta, A., Kategari, A., Bansal, A., ... & Pasha, Q. (2018). Role of ApoE gene polymorphism and nonconventional biochemical risk factors among very young individuals (aged less than 35 years) presenting with acute myocardial infarction. *Indian heart journal*, 70, S146-S156.

Mehra, P., Mehta, V., Sukhija, R., Sinha, A. K., Gupta, M., Girish, M. P., & Aronow, W. S. (2019). Pulmonary hypertension in left heart disease. *Archives of medical science: AMS*, 15(1), 262.

Sarkar, P. G., Gupta, M. D., Girish, M. P., Bansal, A., Kohli, S., Saijpal, R., ... & Pasha, Q. (2018). Tumor necrosis factor-alpha-308G/A gene polymorphism and novel biomarker profiles in patients with Takayasu arteritis. *Indian heart journal*, 70, S167-S172.

Sawhney, J. P. S., Mulasari, A., Kahali, D., Mehta, V., Nair, T., Kaul, U., & Hirematth, M. S. (2019). 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 journal*, 71(1), 25-31.

Singh, K., Singh, R., Chandra, S., & Tyagi, S. (2018). Paraoxonase-1 is a better indicator than HDL of atherosclerosis—A pilot study in North Indian population. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 12(3), 275-278.

Yusuf, J., Jothinath, P., Mukhopadhyay, S., Vignesh, V., & Tyagi, S. (2018). Evaluation of serum 25-hydroxyvitamin D levels in calcific rheumatic mitral stenosis—A cross sectional study. *Indian heart journal*, 70(2), 206-213.

Yusuf, J., Das, D., Mukhopadhyay, S., & Tyagi, S. (2018). Correlation of QRS duration with myocardial blush grade as a marker of myocardial reperfusion in primary percutaneous coronary intervention. *Indian heart journal*, 70, S359-S364.

#### Books/ Chapters /Contributed

Batra Vishal, Gupta MD, MP Girish (2018) Low Gradient Aortic Stenosis in Essentials of Postgraduate Cardiology Textbook of Cardiology edited by Kewal C Goswami published by Jaypee Brothers Medical Publishers (P) Ltd, Delhi, India, Chapter 23, page 199-203.

Gupta MD , MP Girish , Gupta A (2018) Indian Diet and Coronary Artery Disease in CSI Textbook of Cardiology: The Indian Perspective edited by Kewal C Goswami published by Jaypee Brothers Medical Publishers (P) Ltd, Delhi, India, Chapter 7, page 39-45.

Nigam A (2018) Pregnancy and Congenital Heart Disease in Essentials of Postgraduate Cardiology Textbook of Cardiology edited by Kewal C Goswami published by Jaypee Brothers Medical Publishers (P) Ltd, Delhi, India, Chapter 30, page 252-258.

Trehan VK, Singh Safal, Trehan S (2018) Percutaneous Valve Interventions beyond Transcatheter Aortic Valve Implantation in Essentials of Postgraduate Cardiology Textbook of Cardiology edited by Kewal C Goswami published by Jaypee Brothers Medical Publishers (P) Ltd, Delhi, India, Chapter 27, page 219-232.

Tyagi S, Bansal A (2018) Interventions in Takayasu Arteritis ( Nonspecific Aortoarteritis) Essentials of Postgraduate Cardiology Textbook of Cardiology edited by Kewal C Goswami published by Jaypee Brothers Medical Publishers (P) Ltd, Delhi, India, Chapter 71, page 586-597.

### **Seminars Organized**

Marian Branny from Czech Republic delivered a guest lecture on Hemodynamics in TAVR. May 2019

### **Conferences/ Workshop Organized**

Mohit Gupta organized Delhi Cardiological Society of India (CSI) chapter annual conference, Mar., 2019.

Vijay Trehan performed live case on complex PCI in INDIA LIVE 2019 conference from GIPMER.

### **Seminars/ Conferences Presentations**

Sanjay Tyagi

PCSK9 inhibitors as alternative to statins: Are they good enough?

Delivered a talk on Cutting balloon Angioplasty for in-Stent restenosis In Takayasu arteritis. 70<sup>th</sup> Annual Conference of CSI,- 2018

Delivered a talk on Primary PCI or Phramco-invasive PCI: Which is more relevant for the city of Delhi, Annual Conference of Cardiological Society of India, Delhi Branch Mar., 2018.

Delivered a talk on Safal Can't judge a book by its cover - Which oil to use for cardiovascular health? Annual Conference of Cardiological Society of India, Delhi Branch, 2018.

Vijay Trehan

spoke on Retrieval of embolized devices. 70<sup>th</sup> Annual Conference of CSI,- 2018

Master Talk - CHIP: How to go about it, Annual Conference of Cardiological Society of India, Delhi Branch, 2018.

### **Other Inter-institutional Collaboration**

Department has collaborated with Institute of Genomics and Integrative Biology for advanced genetic analysis.

### **Faculty Strength: 14**

### **Other Significant information**

Health Services to the community Department has particular focus on prevention of heart disease. The faculty of the department is undertaking various public awareness programs on heart disease. Talk on Nurses day "Easy Life for Busy People", Secrets of healthy and Happy Life. Talk on "Secrets of Stress management, self-transformation, healthy lifestyle and various life style modifications. Yoga center of the department helps the cardiac patients in prevention and life style management.

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## COMMUNITY MEDICINE (LHMC)

### Major Activities and Achievements

The Department organised the 4<sup>th</sup> International Conference of Occupational and Environmental Health (ICOEH). Best paper awards for oral /poster presentations were conferred to five residents in this International Conference. One of the projects proposals was selected for Ford Foundation Research grant at a National level conference. Three faculty members participated as public health expert and team leaders for flood relief activities in Kerala floods. Senior faculty have acted as external examiners for MBBS and Post-Graduate (MD) examinations at reputed institutions of our country. Intramural project proposals were also reviewed by our faculty. Health Promoting clinics for Non-Communicable Diseases was started as an outreach activities at Urban Health Centre, Kalyanpuri. The Department was awarded the 1<sup>st</sup> prize for best videos in National competition on 'Stop TB campaign' for both UG & PG categories by IAPSM.

### Honours/ Distinctions

Dr. JG Prasuna was facilitated for the departmental Library as e-grandhalaya under Delhi University.

Dr. Shweta Arora (Senior Resident) was awarded the Best original paper for presenting " Air pollution and environmental risk factors for altered lung function among adult women of an urban slum area of Delhi " at the Lung India awards given by the Indian Chest Society in Dec 2018.

### Publications:

Acharya AS, Priyanka, Khandekar J, Bachani, Rasia SK. (2018) Awareness and Willingness to Pledge for Eye Donation among Adult Population of an Urban Re-settlement Colony of Delhi. *Indian J of Community & Family Medicine*, 4 (1): 28-33'

Arora S, Rasia SK, Bachani D, Gandhi, Chhabra SK. (2018) 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*, 35:193-8.

Bhuvaneshwari N, Prasuna JG, Goel MK, Rasia SK. (2018) An Epidemiological study on Home Injuries among Children 0-14 years in South Delhi: *Indian J of Public Health*, 62 (1): 4-9

Dhamnetiya D, Goel MK, Dhiman B, Pathania OP. (2018) Risk factors associated with gallstone diseases. *Indian J of Community Health*, 30: 2.

Dhamnetiya D, Goel MK, Dhiman B, Pathania OP. (2018) Gallstone diseases and quantitative analysis of independent biochemical parameters: Study in tertiary care hospital of India. *J of Laboratory Physicians*, 10:4.

Dhamnetiya D, Goel MK, Balraj Dhiman B, Pathania OP (2018). Risk factors associated with gallstone disease. *Indian Journal of Community Health*. 30 (02), 133-138.

Dhamnetiya D, Goel MK, Balraj Dhiman B, Pathania OP (2018) Gall stone disease and quantitative analysis of independent biochemical parameters: study in a tertiary care hospital of India, *Journal of Laboratory Physicians*, 10 (4): 448-452.

Dhamnetiya D, Goel MK, Balraj Dhiman B, Pathania OP (2019) Gall stone disease and its correlates among patients attending teaching hospital of North India. *Journal of Family Medicine* 8 (1), 189-193

Dhirar N, Dudeja S, Khandekar J, Bachani D et al. (2018) Childhood Morbidity and Mortality in India- Analysis of National Family Health Survey 4 (NFHS-4) Findings. *Indian Paediatrics*, 55: 335-338

Kumar D, Rasia SK, Das R. (2018) A clinico- social study of functional disabilities among elderly in palam villages of Delhi. *Indian J of Community Medicine & Family Medicine* 3:2, 44-48.



Parashar M, Singh M, Lal P. (2018). Life satisfaction and correlates among working women of a tertiary care health sector: A cross-sectional study from Delhi, India. *Med J DY Patil Vidyapeeth*, 11,406-411.

Parashar M, Ellawadi D, Singh M, Jiloha RC. (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.

Prasuna, J G (2018) Legislations Relevant to MCH and Social security, for Post Graduate Diploma in Maternal and Child MME 301 module, Unit 27 Health , IGNOU ,GOI.

Singh A, Acharya AS, Dhiman B. (2018) Awareness regarding diabetes and its complications in adults: A cross-sectional study in an urban resettlement colony of Delhi. *Indian Journal of Medical Specialities*, 9(1):3-6

Singh A, Acharya AS, Dhiman B. (2018) Shared risk factors of Non-Communicable diseases: A community based study among adults in an urban resettlement colony of Delhi. *Indian J of Community & Family medicine*, 4(2): 42-48

Singh AB , Prasuna JG , Mehra P , Rasania SK (2018) Common Oral health problems and Related Health Seeking behaviour among young Adolescents in an Urban resettlement colony, East Delhi, India *Indian J of Youth and Adolescent Health*, 5 (3), 6-11.

Singh T, Nagesh S, Ray TK. (2018) Magnitude and correlates of anaemia in elderly women of resettlement colony of Delhi. *J Mid-life Health*,9:21-25

Thakur A, Ray TK, Goel MK. (2018) Health-care services utilization among diabetes patients enrolled in tertiary care hospital of east Delhi. *Indian J of Community Medicine* 43(3):248-49

### **Journals**

Dr. Manish K. Goel: Associate editor IJOYAH

### **Research Projects**

Project Proposal for the Ford Foundation research grant ( Rs: 10,000/) 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 40 yrs in Palam area', Archana Thakur.

STS project under ICMR, Non-adherence to Anti-hypertensive treatment and its determinants among individual attending tertiary care hospital New Delhi, Shalini and Manish K.Goel.

### **Seminar / Workshops Organized**

National Workshop on health economics . Aug., 2018.

CME on Tuberculosis control in India an update. Apr ., 2018

Biomedical Waste Management Workshop for MTS/Sulabh workers and Medical Professional . Feb., 2019.

-conference workshops of 4<sup>th</sup> ICOEH, Feb., 2019- Climate Change and Health.;Silicosis and Tuberculosis; Asbestosis related diseases- The Way Forward; Stress and Burnout Management at Workplace ;;Pre-Hospital Trauma management for Occupational Injury for MTS workers. Feb., 2019.

Pre-conference Workshop in Medicus Conventus conference held at Lady Hardinge Medical College Research methodology workshop Mar., 2019; Diet Dialogue and Skills , Mar., 2019

### **Conference Organized**

The 4<sup>th</sup> International Conference of Occupational and Environmental Health (ICOEH) held at Lady Hardinge Medical College, Feb., 2019.

### **Seminar/ Conference Presentations (National/ International) (Selected)**

Mrigesh. K, oral presentation on “Influence of m-Health on Utilisation of Antenatal Care services in an Urban area of Delhi” ,4<sup>th</sup> International Conference of Occupational and Environmental Health ,Lady Harding Medical College ,New Delhi. Feb., 2019.

Nazish Rashid oral presentation on ‘Prevalance of Depression, anxiety and stress among adolescent students of NOIDA’ at the XXI Annual Conference of Indian Association of Preventive & Social Medicine (IAPSM), Uttar Pradesh and Uttarakhand State Chapter - IAPSMUPUKCON-2018 , in J.N. Medical College, Aligarh Muslim University, Aligarh, U.P.October 2018.

Ananya Ray Laskar presented a paper on ‘An Epidemiological Study on Tobacco use among students of JNU’ at the 14<sup>th</sup> International Conference on Occupational and Environmental Health, LHMC, New Delhi. February, 2019.

### **Other Inter-Institutional Collaboration**

Collaborating for Post graduate Diploma in Maternal and Child Health with Indira Gandhi National Open University (IGNOU)

### **Extension and outreach activities**

Community Medicine Unit, Kalawati Saran Children Hospital, 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 - 12**

### **Other significant information**

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 the 4<sup>th</sup> International Conference of Occupational and Environmental Health (ICOEH) held at Lady Hardinge Medical College, New Delhi Feb., 2019.

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## **COMMUNITY MEDICINE (MAMC)**

### **Major activities and achievements**

The Department has organized 11 training programmes/ workshops during the period in addition to routine MBBS, MD and Ph.D training programmes. Eight MD theses completed , one PhD awarded and two ICMR studentship projects were completed. Nearly 12 projects funded by ICMR, MAMC Research Society, UK-NHR, WHO/RNTCP and others are currently being carried out in the department. There were 44 publications and 8 books/chapters contributed by faculty in the department. Faculty attended several conferences/workshops/seminars as Chairperson, invited speakers, or presented papers. Faculty of the department has taken an important role as experts or resource persons in various trainings of national health programs at centre and state level. Department through its peripheral centres is providing Outpatient services, immunizing children and providing counselling related to family planning to women in the catchment population. Department is also actively engaged in health promotion and education activities in the community through various health centers.

### **Honours/Distinctions:**

Dr. Suneela Garg

Felicitated with Eminent Teacher Award 2018 by IMA & NDB

Delivered the “ K.N. Rao Memorial oration” Innovations in “Health care reaching the Unreached.” during IPHA ( Lucknow)

Dr Nandini Sharma was awarded with State Medical Doctor award by Delhi State, Feb., 2019.

### **Publications**

Ahlawat, P., Batra, N., Sharma, P., Kumar, S., & Kumar, A. (2018). Knowledge and attitude of adolescent girls and their mothers regarding cervical cancer: A community-based cross-sectional study. *Journal of mid-life health*, 9(3), 145.

Anand, T., Grover, S., Kumar, R., Prabhu, N., & Ingle, GK.(2018).Preventive Health Practices among Doctors in Delhi.*Journal of The Association of Physicians of India*,66.

Arora, E., Garg, S., &Singh, MM.(2018). Role and Responsibilities of Medical Students in the Prevention and Control of Dengue. *Indian Journal of Communicable Diseases*,4(2).

Banerjee, B.,&Banerjee, R.(2017).Update on Malaria. *Indian Journal of Communicable diseases*,3(2),61-68.

Basu, S., Garg, S., Sharma, N., Singh, M. M., &Garg, S. (2018). Adherence to self-care practices, glycemic status and influencing factors in diabetes patients in a tertiary care hospital in Delhi. *World journal of diabetes*, 9(5), 72-79.

Basu, S., Garg, S., Singh, M. M., &Kohli, C.(2018). Addiction-like behavior associated with mobile phone usage among medical students in Delhi. *Indian journal of psychological medicine*, 40(5), 446.

Basu, S., &Garg, S.(2018). Antibiotic prescribing behavior among physicians: ethical challenges in resource-poor settings. *Journal of medical ethics and history of medicine*, 11.

Basu, S., Garg, S., Kumar, R., &Shukla, A. (2017). The willingness for using mobile phone for health education among women caregivers of under 5 children in an urban resettlement colony in Delhi, India. *Indian Journal of Community Health*, 29(4), 439-444.

Basu, S., Khobragade, M., Raut, D. K., &Garg, S. (2017). Knowledge of diabetes among diabetic patients in government hospitals of Delhi. *International Journal of Noncommunicable Diseases*, 2(1), 8-9.

Dahiya, N., Basu, S., Singh, M. C., Garg, S., Kumar, R., &Kohli, C. (2018). Knowledge and Practices Related to Screening for Breast Cancer among Women in Delhi. *Asian Pacific journal of cancer prevention*, 19(1): 155-159.

Dahiya, N., Basu, S., Singh, M. C., Garg, S., Kumar, R., &Kohli, C. (2018). Knowledge and practices related to screening for breast cancer among women in Delhi, India. *Asian Pacific journal of cancer prevention*, 19(1), 155.

Dahiya, N., &Garg, S. (2018). Three-parent baby: Is it ethical?. *Indian journal of medical ethics*, 3(2), 169-169.

Devi, R., &Singh, MM. (2018, June 4).Greater role of nurses in Indian health care system.Retrieved from <https://www.bmj.com/content/361/bmj.k2355/tr-1>.

Dhaked, S., Sharma, N., Chopra, K. K., Khanna, A., & Kumar, R. (2019). Socio-demographic profile and treatment outcomes in pediatric TB patients attending DOTS centers in urban areas of Delhi. *Indian Journal of Tuberculosis*, 66(1), 123-128.

Dhaked, S., Sharma, N., Chopra, K. K., Khanna, A., & Kumar, R. (2018). Treatment seeking pathways in pediatric tuberculosis patients attending DOTS centers in urban areas of Delhi. *Indian Journal of Tuberculosis*, 65(4), 308-314.

Garg, S. (2018). Universal health coverage in India: Newer innovations and the role of public health. *Indian journal of public health*, 62(3), 167.

- Garg, S., Kohli, C., Mangla, V., Chadha, S., Singh, M. M., & Dahiya, N. (2018). An Epidemiological Study on Burden of Hearing Loss and Its Associated Factors in Delhi, India. *Annals of Otolaryngology, Rhinology & Laryngology*, 127(9), 614-619.
- Garg, K., Tripathi, T., Rai, P., Sharma, N., & Kanase, A. (2017). Prospective evaluation of psychosocial impact after one year of orthodontic treatment using PIDAQ adapted for Indian population. *Journal of clinical and diagnostic research: JCDR*, 11(8), ZC44.
- Goel, P., Kumar, R., Meena, G. S., & Garg, S. (2018). Association of sociodemographic characteristics with KAP regarding menstrual hygiene among women in an urban area in Delhi. *Tropical Journal of Obstetrics and Gynaecology*, 35(2), 158-164.
- Gupta, PK., Garg, S., Singh, MM., Kohli, C., & Rajeshwari, K. (2017). Factors Affecting Adherence to Highly Active Anti-Retroviral Therapy in Pediatric HIV Cases: An Exploratory Study. *International Journal of Scientific Research*, 6(6), 35-38.
- Kansal, A., Garg, S., & Sharma, M. (2018). Moving from maternal death review to surveillance and response: A paradigm shift. *Indian journal of public health*, 62(4), 299.
- Kumar, V., Rathi, A., Lal, P., & Goel, S. K. (2018). Malaria and dengue: Knowledge, attitude, practice, and effect of sensitization workshop among school teachers as health educators. *Journal of family medicine and primary care*, 7(6), 1368.
- Kumar, V., Rathi, A., Lal, P., & Jain, S. (2018). A study on awareness regarding prescribed drugs of patients attending out patient departments in tertiary care of hospital of Delhi. *Indian Journal of Applied Research*, 8(8), 1-3.
- Kundu, D., Sharma, N., Chadha, S., Laokri, S., Awungafac, G., Jiang, L., & Asaria, M. (2018). Analysis of multi drug resistant tuberculosis (MDR-TB) financial protection policy: MDR-TB health insurance schemes, in Chhattisgarh state, India. *Health economics review*, 8(1), 3.
- Meena, J. K., Kumar, R., & Meena, G. S. (2018). Protect the protector: Morbidity and health behavior among police personnel in national capital region of India. *Indian journal of occupational and environmental medicine*, 22(2), 86.
- Nair, TS., Garg, S., & Singh, MM. (2018). Prevalence and Determinants of Hypertension among Adolescents in New Delhi, *India-A Cross-sectional Study*. *Journal of Hypertension*, 36, e265-e266.
- Pangtey, R., Sharma, P., Ahuja, K., Kumar, S., & Garg, S. (2018). Consumption Patterns of Energy Drinks, Vitamin and Mineral Supplements by Adolescents and their Association with Body Mass Index. *Indian Journal of Youth and Adolescent Health*, 5(2), 2-6.
- Rathi, A., Kumar, V., Majhi, J., Jain, S., Lal, P., & Singh, S. (2018). Assessment of knowledge, attitude, and practices toward prevention of hepatitis B infection among medical students in a high-risk setting of a newly established medical institution. *Journal of laboratory physicians*, 10(4), 374.
- Rustagi, R., & Garg, S. (2018). Nipah Virus: An Emerging Threat. *Indian Journal of Communicable Diseases/Volume*, 4(2).
- Sharma, M., Basu, S., & Banerjee, B. (2017). Inappropriate classification of body mass index of adolescent girls under SABLA scheme. *Indian journal of public health*, 61(4), 312.
- Sharma, N., Basu, S., & Chopra, A. K. (2018). Achieving TB elimination in India: The role of latent TB management. *Indian Journal of Tuberculosis*.
- Sharma, N., Khanna, A., Chandra, S., Basu, S., Bajaj, D., Sachdeva, K. S., & Ramachandran, R. (2018). Tuberculosis (TB) intervention model targeting mobile population of truckers in Delhi, India. *Indian Journal of Tuberculosis*.

Sharma,S., Mehra, D., Nayak, H., & Singh, MM.(2018). Qualitative lens to assessing the ground level implementation of conditional cash transfer scheme in India.*International Journal of Reproduction, Contraception, Obstetrics and Gynecology*,7(7),2742-2743.

Singh,MM., & Devi, R. (2018, January 19).Cannabis myths. Retrieved from <http://www.bmj.com/content/360/bmj.k72/rr>.

Singh,MM., & Devi, R. (2018, January 20). Re: Circulating vitamin D concentration and risk of seven cancers: Mendelian randomisation study. Retrieved from <http://www.bmj.com/content/359/bmj.j4761/rr-4>.

Singh,MM., & Devi, R. (2018, January 22). Re: Electronic cigarettes for smoking cessation. Retrieved from <http://www.bmj.com/content/360/bmj.j5543/rr-1>.

Singh,MM., & Devi, R.(2018,January 23).Mental health - a neglected aspect of health. Retrieved from <http://www.bmj.com/content/360/bmj.k233/rr-0>.

Singh,MM., & Devi, R. (2018, January 24).Indian clinical guidelines in health programmes. Retrieved from <https://www.bmj.com/content/360/bmj.k270/rr-0>.

Singh, MM., & Devi, R. (2018, January 25). Re: Treat suspected flu with antivirals, hospital doctors are told. Retrieved from <http://www.bmj.com/content/360/bmj.k312/rr>.

Singh, MM., & Devi, R. (2018, June 1).Why don't smokers quit?. Retrieved from <https://www.bmj.com/content/360/bmj.k350/rr-3>.

Singh, MM., & Devi, R. (2018, June 1).Re: Nine in 10 children who die from TB went untreated.Retrieved from <https://www.bmj.com/content/361/bmj.k2345/rr>.

Singh, MM., & Devi, R. (2018, June 11). Re: Homeopathy: challenge to prescription ban is rejected by High Court. Retrieved from <https://www.bmj.com/content/361/bmj.k2513/rr>.

Singh, T., Sharma, S., Banerjee, B., &Garg, S. (2018). Knowledge regarding anesthesiologist and anesthesiology among patients and attendants attending a rural hospital of New Delhi. *Journal of education and health promotion*, 7.

Singh, T., Sharma, S., Banerjee, B., &Garg, S. (2018). Knowledge regarding anesthesiologist and anesthesiology among patients and attendants attending a rural hospital of New Delhi. *Journal of education and health promotion*, 7.

### **Books/ Chapters contributed**

Banerjee B. (2018) DK Taneja's Health Policies and Programmes in India, 16<sup>th</sup> ed. Jaypee Brothers Medical Publishers, Delhi, India. (New edition)

Banerjee B. (2018) Eradication of Poliomyelitis: Current Scenario. Recent Advances in Pediatrics: Hot Topics; 26: 410-419.

Banerjee B. (2018) Primary Health Care: Concept and Implementation. AITBS Publishers; Delhi, India.

Banerjee B. (2018) Primary Health Care in Nursing. AITBS Publishers; Delhi, India.

Banerjee B. (2018) Strategies to Improve Adolescent Health under Reproductive, Maternal, Newborn, Child Plus Adolescent Health programme. Recent Advances in Pediatrics: Hot Topics; 26: 404-409.

Garg S, Singh MM, Mala YM. Magnitude of Domestic Violence in Pregnancy, Its Associated Factors, Related Maternal Health and Birth Outcomes in Delhi.

In press – Author of chapter on 'Health Policies and Health Programmes in India' in a multi-authored textbook to be published by Indian Association of Preventive and Social Medicine

Dr B Banerjee

Member of Editorial Board of Indian Journal of Communicable Diseases

Peer Reviewer for Peer Reviewer for WHO Bulletin, International Journal of Medicine and Public Health, Indian Journal of Pediatrics, Indian Journal of Public Health, Basic Research Journal of Medicine & Clinical Sciences

### **Research Projects**

RNTCP, Delhi Rs 495000 TB Intervention Targeting Mobile Population” (Truck Drivers and Helpers), Nandini Sharma

RNTCP, Delhi Rs 238350 MDR TB Trends in Case Finding and Treatment Outcomes in Delhi , S Garg

RNTCP, Delhi Rs 499300, Partnership in TB Control Through Involvement of Pharmacists in Delhi, Nandini Sharma

ICMR 4000000, A prospective study of magnitude of domestic violence in pregnancy, it's associated factors, related maternal health and birth outcomes in Delhi, Suneela Garg

National Health Mission Rs 1600000, Menstrual hygiene practices among adolescent girls in rural and urban resettlement areas of Delhi, Suneela Garg

National Institute of Health Research UK Rs1685700, Addressing Smokeless Tobacco and building Research Capacity in South Asia (ASTRA), Suneela Garg

ICMR Rs. 2034334, Community based intervention research project titled 'Efficiency of Child-To-Child Approach in Preventing Childhood injuries and their Consequences' 27-04-2018 to 27-07-2019, Bratati Banerjee

Govt of NCT of Delhi. Rs.1648223, Impact of Air Pollution on Public health-an observational study.\*, Nandini Sharma

RNTCP Rs. 499300 Risk factors and treatment seeking pathways among patients of Multi Drug Resistant-Tuberculosis, Nandini Sharma

### **Seminars organized**

Organized CME on “Newer Initiatives in Revised National Tuberculosis Control Program in India” MAMC, Mar., 2018.

Epidemiology and screening of breast cancer. Workshop on “Breast Cancer Screening” for doctors and nurses . Feb., 2018.

Classification of maternal deaths. MDSR training for doctors under Govt of NCT Delhi, Sept., 2018.

Group work on case studies. MDSR training for doctors under Govt of NCT Delhi, Sept., 2018.

Training of Trainers under National Programme for Health Care of Elderly (Community Health Workers), MAMC, New Delhi , Apr., 2018.

Mid term CME-2018 on “Infectious Diseases” organized by Department of Medicine, MAMC Oct., 2018.

CME on Newer initiatives in Immunization and Vaccine Safety, MAMC on 14<sup>th</sup> Nov., 2018.

Organised 2 workshops on “ Maternal Death Surveillance and Response and maternal Near Miss Review “ under Strengthening of Medical Education & Training Workshop “ MAMC Sept., 2018 .

WHO Multi Country Workshop on Ear & Hearing Care in SEA region and Technical Advisory Group. Oct., 2018.

### **Seminar/Conference presentations**

Bratati Banerjee presented a paper, Environmental risk analysis of unintentional childhood injuries in rural families of Delhi at 45th Annual National IAPSM Conference & 19th Maharashtra State Joint Conference of IAPSM & IPHA, held at Smt. Kashibai Navale Medical College, Pune, which won First Prize.

Nandini Sharma presented the paper "Self Notification Through Chemist : Progenitor Approach Towards Ending TB in Delhi" at 49th Union World Conference on Lung Health, The Hague, The Netherlands. Oct., 2018.

Rathi A, Kumar V, Lal P and Singh A." A Cross sectional study of prevalence of Depression, Anxiety, and Stress amongst professional cab drivers in New Delhi." Paper presented by A Rathi in "International Congress Occupational Health", held at Dublin, Ireland, April., 2018.

Suneela Garg presented a paper "Noise induced hearing loss in factory workers in Delhi, India : A dual burden from occupational and recreational sound exposure " at " 2nd Sound Hearing 2030 World Congress on " Sharing & Caring for Better Ear & Hearing Care at Bali, Indonesia. Feb., 2019 .

### **Extension and outreach activities**

Department provides primary health care in four centres: Gokulpuri, Barwala, Delhi Gate and BVK, New Delhi. We cater to community with

### **Number of M.Phil./Ph.D. Degrees**

Ph.D. - 1

### **Faculty strength - 11**

### **Other significant information: Community and outreach services provided by the department**

Rural Health & Training Center, Barwala

R.H.T.C. is one of the rural field practice center of Department of Community Medicine, Maulana Azad Medical College. It is situated in Northwest part of Delhi, Barwala Village- 110039. Barwala village has a population of around 5100 and caters to population of nearby areas which amounts to more than 1 lakh. Some of the relevant demographic indicators are:

Birth Rate: 100/1,00,000 population, Death Rate: 19/ 1,00,000 population, IMR: 2/1,00,000 live births, MMR: NIL, During the period of April 2018 to March 2019, more than 26,000 patients attended the OPD. Services provided:( O.P.D. services, M.C.H. and family welfare services, ANC- Management of common medical problems, referral and follow-up.

Health talks given in community by interns on common public health problems and healthy lifestyle habits, Implementation of National Health programmes ,Research activities

Control of communicable diseases, Special Clinics, DISHA clinic for Adolescents (10-19 yrs) on Saturdays addressing common issues like Growth and Development, Nutrition, Sexual and Reproductive concerns, Mental Health etc in Adolescents.

NCD clinic on Fridays for Screening and Management of Common NCDs like Diabetes, Hypertension etc. Increasing health awareness about NCDs and their prevention along with screening of population of Barwala village is an important function of this clinic. Diabetic retinopathy screening is also done for diabetic patients.

Celebration of Important Health Days for raising awareness and Education of Community regarding the Concerned Health issues is an ongoing process at RHTC Barwala. World Health Day, World Aids Day,

Mental Health Day, World TB Day, World No Tobacco Day etc are celebrated on similar lines with Community participation in form of Quiz, Group discussion and Role Plays & Skits.

Surveys: Timely socio-demographic surveys done in to update the records.

Delhi Gate Centre

Total Population (health practice area):- As on 31.12.2017: 10800; O.P.D. Services: -

Total patients seen: 11,468.

Community services: Health talks given in community by interns on common

public health problems and healthy lifestyle habits, Interns were taught about the rational usage of drug, management of common ailments and its complications, Training of interns in immunization and record maintenance, Prevention and treatment of diarrhoea were taught to interns, Interns were trained to counsel about Infant and young child feeding practices along with growth monitoring and counselling of mothers, ANC- Management of common medical problems, referral and follow-up were taught to interns

7<sup>th</sup> April 2018: World Health Day was observed with the theme “Universal Health Coverage”.

16<sup>th</sup> May 2018: National Dengue day was observed during which source reduction activities are carried out in the service areas of Delhi Gate Urban Health centre.

May 23<sup>rd</sup> to 7<sup>th</sup> June 2018: World No Tobacco fortnight was observed in which health education sessions and poster competition were conducted.

1-7<sup>th</sup> August 2018: Breast feeding week was observed in which the importance of exclusive breastfeeding, and continued breast feeding for at least 2 years was promoted among the mothers and adolescent girls.

10<sup>th</sup> October 2018: World Mental Health day was observed during which awareness was created among the general OPD patients about identification, management and prevention of mental illness through role plays and posters. Emphasize was given to prevention of stigma for the mentally ill.

10<sup>th</sup> November 2018: World immunization day was observed on 10<sup>th</sup> November. In which all the mothers of U5 children are given health education about the importance of complete immunization through posters presented by Interns.

December 2018: World AIDS day was observed in which health education was given to all the OPD patients about AIDS, cause, management, prevention and de-stigmatization.

4<sup>th</sup> February 2019: World cancer day was observed in which health education was given related to breast and cervical cancer screening. Self -breast examination was taught to the adult women patients.

24<sup>th</sup> March 2019: World tuberculosis day was observed in the center in which awareness about TB symptoms, screening, do's and do not's were explained to the OPD attenders.

Balmiki Basti

Total Population: 2500, Number of Health Talks given: 25

Health education: Health education was given by students of Maulana Azad Medical College( Skits were organized by Under Graduate students, Charts and video clips were used for health education)

World Health Day was celebrated regarding Universal health coverage among BVK residents on 7<sup>th</sup> April 2018. Health talk and role play was given by Interns and Post graduates of Maulana Azad Medical College on Ayushman Bharat.



International Breast Feeding week celebrated in community on 7 August 2018. Health talk was given by the interns on the importance of breast feeding. Main focus was given on the early initiation of breast feeding, exclusive breast feeding, restriction of pre lacteal feeds, attachments and positioning during feeding.

#### Health Promotion Activities

Health promotion program in view of Malnutrition was organized for mothers with malnourished children in Anganwadi of BVK. Main focus was on Nutrition. Dietary modifications were advised along with supplementation of iron and calcium syrups.

“Aao School Chalein” - Initiative- Health Talk held in South Delhi MCD School for awareness on Dengue, Chikungunya & Prevention of Mosquito breeding on 6<sup>th</sup> August 2018.

Screening for Hypertension was done among population greater than 18 years from May to July 2018.

Counselling on lifestyle modification for Hypertension and Diabetes Mellitus patients was given regularly to the OPD patients.

Health Talk held on Depression in the Centre on occasion of World Health Day on 7<sup>th</sup> April 2018 which was followed by an hour long session on Meditation and subsequent refreshments.

#### Referral Services

Two way referral services to LNJP were given to patients when required.

All motivated couples for sterilisation are referred to the LNJP hospital.

#### UHC Gokalpuri

Gokalpuri is located in North East District of Delhi, with a population of 29242, with total families 5827.

The following services are provided to the local community at UHC Gokalpuri:

OPD services (Antenatal services, Immunization services and general OPD), MCH and family welfare services, Implementation of National Health Programmes, School Health Services, Research activities, Collection and compilation of vital statistics, Control of communicable diseases, Health education in the community through health talks, Training of interns and community health workers, Training programme for Master of Social Work (MSW) and nursing assistant, Referral services (institutional referral for delivery, motivated cases for sterilization, school health check-up), Immunization provided to 3709 cases, antenatal care to 3804 women and 4246 school children were examined.

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### DERMATOLOGY & STD (LHMC)

#### Publications

Garg T, Sanke S, Ahmed R, Chander R, Basu S. (2018) Stevens-Johnson syndrome and toxic epidermal necrolysislike cutaneous presentation of chikungunya fever: A case series. *Pediatr Dermatol*,35(3):392-396

Jabeen M, Garg T, Gaur N, Chander R. (2018) An Observational Cross Sectional Study of Women with Pigmentation on Nape of Neck from a Tertiary Care Centre in North India. *JMSCR*, 06:252-54.

Mendiratta V, Malik M, Agrawal M, Jain M, Gupta B. (2018) Congenital Eccrine Angiomatous Hamartoma: A Rare Entity Revisited. *Indian Dermatol Online J*, 9(3):188-190.

Mendiratta V, Rana S, Manickavasagam S, Nangia A, Chander R. (2018) Cutaneous angiosarcoma in a patient with systemic sclerosis: First case from India. *Indian J Dermatol Venereol Leprol*, 84(2):214-217.

Sanke S, kumar A, Chander R. (2018) Linear Ig A Bullous dermatosis induced by diclofenac sodium. *Indian J Dermatol Venereol Leprol.*,84(4):496-497.

Sanke S, Chander R, Dalal K, Agarwal S. (2018). etastatic tubercular gummas and splenic tuberculoma secondary to tubercular lymphadenitis in an immunocompetent female. *Int J Dermatol*, 57(10):1229-1232.

Yadav A, Garg T, Mandal AK, Chander R. (2018) Quality of life in patients with acquired pigmentation: An observational study. *J Cosmet Dermatol*;17(6):1293-1294.

Yadav P, Garg T, Sanke S, Chander R, Singh D. (2018) Systemic Lupus Erythematosus Presenting as Livedoid Vasculopathy over the Forearms. *Skinmed*,16(2):125-127.

### **Seminars/Conferences organized:**

Monthly Clinical Meet of IADV L held in LHMC ,Sept. 2018.

**Faculty strength: 6**

### **Other Significant information**

Dr.Ram Chander was subject expert for Recruitment of Faculty Member in JIPMER

Pondicherry, Recruitment of Faculty Member in Hindu Rao Hospital, Chairman of Task Force Committee for Comprehensive Redevelopment plan, Chairman of Security Committee ,Chairman of CPWD Committee,President of Faculty Welfare Association ,Member of Sexual Harassment Committee,Chairman of Law and Order Committee of Lady Hardinge Medical College, New Delhi.

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## **DERMATOLOGY & STD (UCMS)**

### **Honours/Distinctions**

Dr. Archana Singal awarded Fellow, National Academy of Medical Sciences (FAMS) at Puducherry, Oct. , 2018.

### **Publications**

Ashique KT, Grover C. (2018) The "Y" technique: An attempt to standardize nail dressing. *J Am Acad Dermatol*. 78(5):e103-e104.

Daulatabad D, Pandhi D, Tanveer N, Sharma S, Kaur I. (2018) Solitary dome-shaped erythematous lump of long duration on the palm. *Indian J Dermatol Venereol Leprol.*, 84: 437-9.

Daulatabad D, Nanda S, Grover C. (2018) Erratum: Chemical Peeling for Nail Disorders: Author Response to the Published Comment. *J Cutan Aesthet Surg*. Oct-Dec;11(4):250-251. doi: 10.4103/JCAS.JCAS\_170\_18.

Dewan P, Gomber S, Banerjee A, Grover C, Kotru M. (2018) Leukemia cutis: an unusual presentation in a child of acute lymphoblastic leukemia. *Pediatric Hematology Oncology Journal* 3 S7eS65

Grover C, Bansal S. (2018) A Compendium of Intralesional Therapies in Nail Disorders. *Indian Dermatol Online J*. ;9(6):373-382. doi: 10.4103/idoj.IDOJ\_280\_18.

Grover C, Ashique KT. (2018) Protecting the diseased digits. Home remedy for the homemaker. *J Am Acad Dermatol*. S0190-9622(18)32339-9. doi: 10.1016/j.jaad.2018.07.037. [Epub ahead of print]

Grover C, Kharghoria G. (2018) Surgical Management of Onychoheterotopia. *J Cutan Aesthet Surg*. 11(3):140-142. doi: 10.4103/JCAS.JCAS\_84\_18

- Grover C, Kharghoria G, Bhattacharya SN (2018). Linear nail bed dyschromia: a distinctive dermoscopic feature of nail lichen planus. *Clin Exp Dermatol*.doi: 10.1111/ced.13809.
- Grover C. (2018) Editorial- IADVL SIG Dermatotomy newsletter. 1, 1, July 2018 pp 2.
- Grover C. (2018) Loggerheads- The big debate. *The MeU Connect*
- Grover C. (2018) Conference Report for ACSICON 2019. *Onychoscope*,7(2): 6-7
- Grover C. (2019) Editorial. *Onychoscope*, 8(1):1.
- Grover C. (2019) Transungual excision of glomus tumors- Lessons learnt. *Onychoscope* 8(1):2.
- Grover C, Gupta S. (2018) Editorial- IADVL SIG Dermatotomy newsletter. Vol 1, Issue 1, July 2018 pp 2.
- Gupta S, Singal A, Aggarwal K, Jangra RS. (2019) Nail photography tricks for pediatric and geriatric patients. *J Am Acad Dermatol*.80(2):e29-e30.
- Gupta AK, Mays RR, Versteeg SG, Piraccini BM, Takwale A, Shemer A, Babaev M, Grover C, Di Chiacchio NG, Taborda PRO, Taborda VBA, Shear NH, Piguat V, Tosti A. (2018) Global perspectives for the management of onychomycosis. *Int J Dermatol*. Dec 25.doi: 10.1111/ijd.14346.
- Jakhar D, Kaur I, Singal A, Sharma S. (2019) Precalcaneal congenital fibrolipomatous hamartoma: Rare or under-reported? *J Cutan Pathol*.; 46:277-79.
- Jakhar D, Pandhi D, Singal A, Sharma S. (2018) Angioma serpiginosum in a bilateral distribution with acral involvement: An uncommon presentation. *Indian J Dermatol Venereol Leprol*. 84(3):338-341.
- Jakhar D, Pandhi D\*, Singal A, Sharma S. (2018) Angioma serpiginosum in a bilateral distribution with acral involvement: An uncommon presentation. *Indian J Dermatol Venereol Leprol*, 84: 338-41.
- Jakhar D, Grover C, Kaur I. (2019) Dendritic pattern: Unique onychoscopic feature in endonyx. *J Am Acad Dermatol*. pi: S0190-9622(19)30182-3. doi: 10.1016/j.jaad.2019.01.071. [Epub ahead of print].
- Jakhar D, Grover C, Sharma S. (2019) Giant pilomatricoma on the upper back. *Indian J Dermatol Venereol Leprol*. doi: 10.4103/ijdvl.IJDVL\_352\_18. [Epub ahead of print]
- Jakhar D, Grover C, Kaur I, Sharma S. (2019) Response to "Dermoscopic features of lichen nitidus". *Pediatr Dermatol*. Jan;36(1):179. doi: 10.1111/pde.13693.
- Jakhar D, Grover C. (2019) Using a car phone holder for performing oculoscopy with a universal serial bus dermatoscope. *J Am Acad Dermatol*. 80(1):e1-e2.doi: 10.1016/j.jaad.2018.07.011.
- Jakhar D, Grover C. (2018) Congenital alopecia of eyebrow. *Indian J Dermatol Venereol Leprol*. 84(6):743-744. doi: 10.4103/ijdvl.IJDVL\_156\_18.
- Jakhar D, Grover C. (2018) Innovative Use of Felt-tip Pen Applicator for Uniform Spread of Linkage Fluid during Dermatoscopy. *Indian Dermatol Online J*. 9(5):322-323. doi: 10.4103/idoj.IDOJ\_58\_18.
- Jakhar D, Grover C, Kaur I, Sharma S. (2018) Dermoscopic features of lichen nitidus. *Pediatr Dermatol*. doi: 10.1111/pde.13576.
- Jakhar D, Grover C. (2018) Universal serial bus dermatoscope as an oculoscopy tool. *J Am Acad Dermatol*. 78(6):e139-e140.
- Kaul S, Singal A, Grover C, Sharma S. (2018) Clinical and histological spectrum of nail psoriasis: A cross-sectional study. *J Cutan Pathol*. Nov;45(11):824-830.
- Murry WT, Sharma S, Arora VK, Bhattacharya SN, Singal A. (2018) Cytomorphological spectrum and immunochemistry of cutaneous tuberculosis. *Diagn Cytopathol*. Dec 24.doi: 10.1002/dc.24138.

- Pandhi D, Kaur I, Singal A, Sharma S. (2019) Atypical presentation of immunoglobulin A vasculitis in disseminated tuberculosis. *Int J Dermatol.* 58(1):e1-e3.
- Pandhi D, Jakhar D, Tandon A, Singal A. (2018) Topical timolol in PHACES syndrome: Is it safe? *Indian J Dermatol Venereol Leprol.* 84(4):488-49
- Pandhi D\*, Kaur I, Singal A, Sharma S (2019) Atypical presentation of immunoglobulin A vasculitis in disseminated tuberculosis. *Int J Dermatol.* 58: e1-3.
- Pandhi D, Jakhar D, Tandon A, Singal A. (2018) Topical timolol in PHACES syndrome: Is it safe? *Indian J Dermatol Venereol Leprol*; 84: 488-91.
- Rigopoulos D, et al. (2019) 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.* Feb 4.pii: S0190-9622(19)30183-5. doi: 10.1016/j.jaad.2019.01.072.
- Rigopoulos D, et al (2019) 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.* pii: S0190-9622(19)30183-5. doi: 10.1016/j.jaad.2019.01.072. [Epub ahead of print]
- Singal A, Kayarkatte MN, Pandhi D, Bhatt S.(2018) Unusually massive ulnar nerve abscess in a leprosy patient; a diagnostic and therapeutic challenge. *Lepr Rev* 89, 289–295.
- Singal A, Pandhi D. (2018) Isolated Nail Pigmentation Associated with Chikungunya: A Hitherto Unreported Manifestation. *Skin Appendage Disord.* 4(4):312-314.
- Singal A, Mittal H, Aggarwal A, Das S, Manchanda S. (2018) Phacomatosis pigmentovascularis type 2b (phacomatosis cesioflammea) with double superior vena cava, abdominal varicosities, and natal tooth: Novel associations. *Pediatr Dermatol.* 35(3):e151-e154.
- Singal A, Kaur I, Arora VK. (2018) Solitary Digital Nodule in an Infant. *Skin Appendage Disord.*;4(1):44-46.
- Singal A. (2018) Conference Report for ACSICON 2019. *Onychoscope*;7(2): 6-7
- Singal A. (2019) Editorial. *Onychoscope*; 9(1):1.

### Chapters in books

- Archana Singal, Shekahr Neema, Piyush Kumar. (2019) ‘Nail Disorder A Comprehensive Approach’ 1st Edn,. Published by CRC Press; Taylor & Francis Group, 6000 Broken Sound Parkway NW, LONDON
- Archana Singal A, M N Kayakatte.Trachyonychia. (2019) In, Nail Disorders: a comprehensive approach Ist Edn. Eds Singal A, Neema S, Kumar P. Published by CRC Press Publishers, Taylor & Francis group, London .pp 221-29.
- Archana Singal, Bertrand Richert. (2019) Nail Infetions (Bacterial, Viral And Others). In Baran and Dawber's Diseases of the Nails and their Management 5th Edn. Published by Wiley-Blackwell publications USA. Pp 390-409.
- Deepak Jakhar, Archana Singal. (2019) Onychoscopy and nailfold capillaroscopy. In, Nail Disorders: a comprehensive approach Ist Edn. Eds Singal A, Neema S, Kumar P. Published by CRC Press Publishers, Taylor & Francis group, London .pp 100-113.
- Grover C, Kawthekar P. (2018) Treatment of dermatophytic infections of nail.In IADV L Manual on Management of Dermatophytoses.Eds Sardana K, Khurana A. CBS Publishers and Distributors Pvt Ltd, Delhi, 1st Edition. pp: 112-120 ISBN978-93-87742-88-8.
- Grover C. (2018) Nail Fragility.In Nail Disorders. Ed Tosti A. Elsevier (Missouri), ISBN: 978-0-323-54433-7. pp: 113-128.

Ishmeet Kaur, Archana Singal. (2019) Nail Tic Disorders. In, Nail Disorders: a comprehensive approach 1st Edn. Eds Singal A, Neema S, Kumar P. Published by CRC Press Publishers, Taylor & Francis group, London .pp 431-440.

Pandhi D, Anita. (2019) Connective Tissue Disorders. In Concise Textbook of Dermatology, 2nd Edn. Ed Gupta L, Dsouza P, Martin A. Published by Jaypee Publishers, New Delhi. pp 299-321.

Pandhi D, Anita. (2019) Embryology of the Skin. In Postgraduate Dermatology, 1st Edn. Ed Lahiri K, De A. Published by Jaypee Publishers, New Delhi.

Pandhi D, Kataria V. (2019) Occupational Nail Diseases. In, Nail Disorders: a comprehensive approach 1st Edn. Ed Singal A, Neema S, Kumar P. Published by CRC Press Publishers, Taylor & Francis group, London .pp 293-303. New Delhi. pp 293-303.

Pandhi D. (2018) Phototoxic and Photoallergic drug reactions. In, IADVL Textbook on Cutaneous Adverse Drug Reactions 1st Edn. Ed Gupta L Gupta L, Martin A, Dsouza P, Pande S. Published by Bhalani Publishers, Mumbai. pp 141-9.

Subuhi Kaul, Archana Singal. (2018) Nail Changes Due To Drugs. in IADVL Textbook on Cutaneous Adverse Drug Reactions 1st Edn. Ed Gupta L Gupta L, Martin A, Dsouza P, Pande S. Published by Bhalani Publishers, Mumbai. pp 231-243.

### **Seminar/Conference Presentations**

Archana Singal

Invited speaker on 'Clinical Resistance in superficial Dermatophytosis' in symposium on 'Fight the Fungus', at Le Meridien, Delhi. Mar., 2019

Invited speaker on 'Topical Steroid Abuse' during DERMACON International; 47th Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) at Bangalore during Jan., 2019.

Dr. Chander Grover invited Faculty for "Diagnostic Utility of Onychoscopy" during the workshop on Nail Surgery, ACSICON 2018 (16th National Conference of Association of Cutaneous Surgeons (I), Daman Apr., 2018

Deepika Pandhi

Invited speaker for talk entitled- "Whats new in Parasitic Infections" at the Mid Year- CUTICON of IADVL Delhi state branch, at New Delhi, July 2018.

Invited speaker for talk entitled- "Premature greying" and panelist for panel discussion on 'Challenges on management of hair disorders' 47th National Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) held at Bengaluru Jan., 2019.

### **Faculty Strength: 5**

#### **Other Significant information**

Manasa KN: Best Thesis Award "Nail Dermoscopy (onychoscopy) findings in the diagnosis of primary onychomycosis; A cross sectional study" during DERMACON International 2019 held at Bengaluru, Jan., 2019.

Pradeep Kumar Awarded the Professor K Sidappa Medal for best paper on original research presented at DERMACON International, Jan., 2019.

Geetali Kharghoria Third Prize for Thesis Based Award session for "Clinical versus Onychoscopic features of Nail Lichen Planus: A Pilot Study" MIDDERMACON 2018, held at Nagercoil, Kanyakumari, Tamil Nadu Aug., 2018.

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## **FORENSIC MEDICINE (MAMC)**

### **Major Activities and Achievements**

The department conducted 1059 postmortem cases in the mortuary attached to this department and opined upon 56 referral Medicolegal case reports prepared in the department. Histopathological laboratory of the department is also working efficiently and various specimens are made into slides and examined. All faculty members are involved in academics and have been appointed as External examiners in prestigious institutes around the country. Faculty members regularly nominated by the Delhi Govt, CBI and the Crime Branch as chairman/board members in various sensitive cases of postmortem and review boards. Senior faculty members are also part of various policy making boards/discussions held at state government Secretariat.

### **Honours/Distinctions**

Dr S K Khanna, promoted to Higher Administrative Grade (HAG) level post and was designated as Professor of Excellence, Oct., 2018

### **Publications**

Baraw R, Pradhan M, Khanna SK. (2018) Correlation of Sexual Dimorphism and Posterior Curve length of Sternum with the help of Discriminant Function Analysis- An Autopsy Study on the Population of Delhi, JIAFM, 40(1):85-90.

### **Journals Published/Edited**

Anil Aggrawal

Editor in Chief of the journal "Anil Aggrawal's Internet Journal Of Forensic Medicine and Toxicology"

### **Seminars/Conferences Presentations**

Amandeep Kaur presented a paper titled "Pathology: a hope for answers in cases of Poisoning" in the 39th Annual National Conference of Indian Academy of Forensic Medicine, JIPMER, Puducherry. Feb., 2018.

Jitendra Kumar, SR, presented paper titled "Kidney at autopsy: Key to understand death" in the 39th Annual National Conference of Indian Academy of Forensic Medicine, JIPMER, Puducherry. Feb., 2018.

Jitendra Kumar, SR presented paper titled "Age estimation using radio-graphic visibility of the root pulp and periodontal ligament" at IAFO, Goa. 2018.

Sreenivas M, invited as Resource faculty for Workshop on "Forensic Anthropology at Forensic Update-II" at AIIMS, Bhopal, Mar., 2018.

Sreenivas M, appointed as Resource faculty for Workshop on "Framework of Multiple Choice Questions" at All India Institute of Ayurveda, New Delhi. May, 2018.

### **Other Inter- Institutional Collaboration**

Postgraduate students were posted at Forensic Science laboratory, Rohini for two weeks for training in Forensic techniques. Undergraduate students of Nehru Homoeopathic Medical College and Hospital, Defence Colony, New Delhi observed postmortem cases

### **Extension and Outreach Activities**

Training of Postgraduate students from the Department of Pathology, Maulana Azad Medical College, New Delhi was conducted on a week long basis.

### **Faculty Strength- 7**

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## GENERAL MEDICINE (LHMC)

### Honours /Distinctions

Dr. Ramesh Aggarwal received Fellowship (FICP 2018) from the Indian College of Physician, the academic branch of Association of Physicians of India (API).

### Publications

Aggarwal R, Dua D, Jain SK. (2018) Hyperuricemia: a lifestyle change. *Urol Nephrol Open Access J*, 6(4):119–121.DOI: 10.15406/unoaj.2018.06.00217.

Bansal P, Sudhir U. (2018) Diagnostic and Prognostic value of Serum Procalcitonin in Pneumonia – A Prospective Observational Study. *Journal of Advanced Research in Medicine*, 5(4): 8-13.

Bhardwaj S, Mondal S, Bandhu R, Debonath EM, Chaudhury D. (2018) Nerve conduction velocity and glycated haemoglobin in patients of type 2 diabetes mellitus. *International journal of scientific research*.7(7)(Epub)

Bhardwaj S, Mondal S, Bandhu R, Chaudhury D. (2018) Correlating nerve conduction velocity and duration of type 2 diabetes mellitus: A study done in North Indian population in a tertiary care hospital. *International journal of scientific research*, 3(4):35-40

Bhardwaj S, Mondal S, Bandhu R, Chaudhury D. (2018) Cognitive functions in patients of type 2 diabetes mellitus with peripheral neuropathy, an observatonal cross sectional study done in India. *Int J Cur Res* 10(7)(Epub)

Chaudhry D, Aggarwal A. (2018) Diabetic Dyslipidemia: Current concepts in pathophysiology and management. *JCDR* , 12(1): OD06-OD09

Hillibrand TD, Gurtoo A, Kupper T. (2018) UIAA medical commission recommendations for mountaineers hillwalker, trackers, rock & ice climbers in diabeties. *high altitude medicine & biology*.

Jain SK, Aggarwal R, Prakash A, Debanath E, Pandey AK. (2018) Study of thyroid functions in adult thalassemia major patients. *Thyroid*, 28 (1):A-115.

Kashyap B, Tiwari U, Prakash A. (2018) Hepatitis B virus transmission and health care workers: epidemiology, pathogenesis and transmission.. *Indian J Med Spec*, 9:30-35.

Kashyap M, Suman V. (2018) Diabetes Mellitus in Elderly. *Journal of Delhi Diabetic Forum*, 27 (3): 98-101.

Kumar L, Gupta SK, Prakash A. (2018) Assessment of the prescription pattern of anti-diabetic drugs in type 2 diabetes mellitus patients. *The Pharma Innovation Journal*, 7:392-394.

Kumar S, Dhanwal DK. (2018) Central obicity and dyslipidemia in HIV patients on ART. *Indian Journal of Medical Research*, 366-368.

Kumar A, Sharma A, Margekar VG, Margekar SL. (2018) Thyroid Dysfunction in Diabetes Mellitus. *journal of delhi diabetic forum*, 26(2).

Suman V, Bansal A. (2018) Non - Alcoholic Fatty Liver Disease and Insulin Resistance, 26(1): 48-50.

Margekar P, Margekar SL, Kumar A. (2018) Stroke in Diabetes. *Journal of Delhi Diabetic Forum*, 27(4).

Prakash A. (2018) Authorship of a research paper: Where does the buck stop? *Indian J Med Spec*, 9:49-51.

Margekar SL, Margekar VG, Kumar A. (2018) Rheumatological Manifestations in DM. *Journal of delhi diabetic forum*, 26(2): 120-28.

Prakash A. (2018) Patient-reported outcomes: from clinical trials to clinical practice- awareness is the need of the hour. *Indian J Med Spec*, 9:1-2

Pangtey GS, Gulati S, Maheshwari A. (2018) Improving knowledge and awareness regarding rheumatology at the undergraduate level in Indian medical colleges. *Indian J Rheumatol*, 13:217-9.

Santhanalalami D, Gautam S, Gandhi A, Chaudhury D. (2018) Association between nerve conduction velocity with insulin resistance in prediabetics and healthy controls. *International journal of scientific research*, 7(8)

Suman V, Bansal A. (2018) Glycemic Variability. *Journal of Delhi Diabetic Forum*, 27 (4): 98-101.

### **Books / Chapters**

Anupam Prakash, Ghan Shyam Pangtey, YP Munjal. (2018) "Handbook of Research Methodology." An Official Publication of Physicians Research Foundation. ISBN: 9788193670323.

Anupam Prakash edited book titled 'Handbook on Research Methodology' published by Physicians Research Foundation of API in 2018.

Ghan Shyam Pangtey, Paramjeet Singh. Polyarteritis Nodosa (2018): An Enigma. Medicine Update, Volume 28,. Edi: Gupta P. 815-20.

Ghan Shyam Pangtey edited book titled 'Handbook on Research Methodology' published by Physicians Research Foundation of API in 2018.

Pritam Gupta, Ghan Shyam Pangtey, Sujata Mangla. (2018) "Changing Trends in Medicine: Past, Present and Future"; Medicine Update, Volume 28, Edi: Gupta P. 909-17.

Sachin Kumar Jain, Ramesh Aggarwal, Rati Singh, Ritika Sud .( 2018) Blood Pressure in Children and Adolescents. In: Singh NP (ed.) Clinical Pearls on Hypertension. Jaypee Publishers Pvt Ltd. Chapter 15:114-125

SK Jain, R Aggarwal, A Srivastava. (2018) Use of Oral Anti Diabetic Agents in Gestational diabetes. In Saxena P, Pandey A, Prakash A (eds). Clinical Guidelines for Management of Diabetes in Pregnancy. FOGSI publication, pp. 48-57

Newer Antihypertensive Agents. In: Singh NP (ed.) (2018) Clinical Pearls on Hypertension. Jaypee Publishers Pvt Ltd.

Plagiarism. Prakash A, Singh NP. (2018) In: Munjal YP, Prakash A, Pangtey GS (eds). Research Methodology. Physicians Research Foundation, Association of Physicians of India, Mumbai, India, pp. 17-28

Ensuring Patient safety in Clinical Research. In: Munjal YP, Prakash A, Pangtey GS (2018). Research Methodology. Physicians Research Foundation, Association of Physicians of India, Mumbai, India, pp. 132-140.

Interplay between Obesity and Metabolic syndrome. Prakash A. In: Nawal CL (2018) Monograph on Obesity. Published by ICP/API, , pp. 97-104.

Glycaemic goals and Monitoring methods in gestational diabetes. Prakash A. In: Saxena P, Pandey A, Prakash A (2018). Clinical Guidelines for Management of Diabetes in Pregnancy.FOGSI publication, pp. 48-57.

### **Research Projects**

Aparna Agrawal, Debasish Chaudhary, Anupam Prakash ( ALKEM- 2 Lakhs) 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.

Anupam Prakash, S.K.Jain, Ghan Shyam Pangtey, Shubha Laxmi Margekar (Novo Nordisk-15 lakhs) PIONEER6.

Ghan Shyam Pangtey, Anupam Prakash, Sachin K Jain (Novo Nordisk-20 lakhs) 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).

Shubha Laxmi Margekar, Anupam Prakash (MJ Biopharm Pvt Ltd.-1.5 lakhs) 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 suspension) injectable suspension of MJ Biopharm Private Limited with Huminsulin 30/70 in treatment of patients diagnosed with type 2 diabetes mellitus

S K Jain, Anupam Prakash, Ghan Shyam Pangtey, Ramesh Agrawal LIRA-ADD2SGLT2i (Novo Nordisk-7 lakhs)– Liraglutide versus placebo as add-on to SGLT2 inhibitors.

### **Journals**

Dr. Amit Kumar Sharma is Editor - Journal of Medical Science and Clinical Research

Dr. Vivek Suman is Editor - Journal of Atherosclerosis and Metabolic Research

### **Seminars/Conferences organized**

CME on Thalassemia & Launch of Thalassemia transition care initiative at Swarna Jayanti Auditorium, Lady Hardinge Medical College, New Delhi, May, 2018.

ECG Workshops at Medicus Conventus'18, The Annual Hardinge Conference at Lady Hardinge Medical College, New Delhi, Jun., 2018.

CME on Diabetes-1, Swarna Jayanti Auditorium, LHMC, New Delhi organized by Department of Medicine, LHMC in collaboration with Delhi Diabetic Forum, Jul., 2018.

CME on Diabetes-2, Swarna Jayanti Auditorium, Lady Harding Medical College, New Delhi in collaboration with Delhi Diabetic Forum, Aug. , 2018.

HIV Update in collaboration with ART Centre, KSCH- CME and Capacity Building at Swarn Jayanti Auditorium, LHMC, New Delhi Dec. , 2018.

### **Seminars/Conferences Presentations**

Dr Anil Gurtoo presented a paper on the topic entitled, “Approach to clinical decision making” at Post graduate CME, MAMC New Delhi.

Dr. Anupam Prakash was speaker on XXV-Quality Improvement Programme on “Recent advances in Pharmacology” organized by Delhi Institute of Pharmaceutical Sciences & Research held at New Delhi, May , 2018.

Dr. Anupam Prakash was speaker on the topic entitled, “Insulin- Safety, Storage and Devices” on DIABCON 2018, 26th Annual Conference on Diabetes organized by Delhi Diabetic Forum held at New Delhi, April, 2018

Dr. Vivek Suman, gave a presentation on the topic entitled, “Thyroid Disorders in Pregnancy” organized by AOGD & DDF, held at SJ Auditorium, LHMC, Nov., 2018

## **Faculty Strength: 25**

### **Other Significant information**

Amit Kumar Sharma is Executive Member- Uttar Pradesh Diabetes Association Gautam Budh Nagar Chapter.

Anil Gurtoo was invited by Deputy Commissioner of Leh, Ladhak to create a high altitude medical response and search rescue system for Chadar- trek in Zaskar, Dec., 2018. Dr. A.Gurtoo gave mountaineering & high altitude medicine training to special advanced mountaineering course of army; NIMAS.

Ghan Shyam Pangtey successfully completed 3 months' short term training in "Fiber-Optic Bronchoscopy" from Pulmonary Medicine department of AIIMS, New Delhi from 18th June 2018-17th September 2018.

Ritika Sud was part of Student Leadership Mission – Law and Ethics; Coordinator in chief at Thalassemia transition care clinic, LHMC New Delhi; Member of disability board of thalassemia patients at LHMC New Delhi.

Shubha Laxmi Margekar was Coordinator in chief at Thalassemia transition care clinic, LHMC New Delhi; Member of disability board of thalassemia patients at LHMC New Delhi.

Vivek Suman is Joint Secretary, Uttar Pradesh Diabetes Association- GautamBudh Nagar Chapter; Executive Member, Indian Society for Atherosclerosis Research (Isar) ; Expert Member- First Expert Group Meeting On Development of Patient Safety Implementation Framework for India. Who and Ministry of Health and Family Welfare; Expert Member- Selection committee for Medical officers, Jammu Public Service Commission. Feb 2018.

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### **GENERAL MEDICINE (MAMC)**

#### **Honours / Distinction**

Dr. Naresh Kumar was awarded Fellowship by Indian Association of Clinical Medicine and awarded , Patiala in the XXVI Annual Conference 2018,. Nov., 9th Nov., 2018.

Dr. Sunita Aggarwal was honoured with SMT Pawan Kumari Jain Oration Award in API Delhi State Chapter.

#### **Publications**

Agarwal, S., Ish, P., Nischal, N., Dewan, R., Anuradha, S., Kar, P., Garg, S., AbhayaNarayana, H., Prayas, S. (2018). Clinical correlates of Hepatitis B or Hepatitis C coinfections in people living with HIV/AIDS (PLHIV). *Journal Advanced Research in Medicine*, 5(3), 7-14.

Aggarwal, A., Chaturvedi, V., Garg, S., Daga, M. K., Sharma, S., Dhar, J. (2018). A Prospective Study on the Prevalence of Pulmonary Artery Hypertension in Thyroid Dysfunction. *Journal of Clinical and Diagnostic Research*, 12(8), OC30-OC33

Aggarwal, S., Anand, P., Mishra, R., Kumar, N. (2018). New Oral Anticoagulants: An Overview. *Journal of Advanced Research in Medicine*, 5(1), 13-15.

Aggarwal, S., Chaturvedi, V., Garg, S., Daga, M. K., Sharma, S., & Dhar, J. (2018). A Prospective Study on the Prevalence of Pulmonary Artery Hypertension in Thyroid Dysfunction. *Journal of Clinical & Diagnostic Research*, 12(8), OC30-OC33.

Basu, S., Garg, S., Sharma, N., Singh, M. M., & Garg, S. (2018). Adherence to self-care practices, glycemic status and influencing factors in diabetes patients in a tertiary care hospital in Delhi. *World journal of diabetes*, 9(5), 72.

Chhoda, A., Jain, D., Daga, M. K., & Batra, V. (2018). Celiac Disease and Secondary Amyloidosis: A Possible Causal Association?. *ACG case reports journal*, 5, e24.

Daga, M. K., Gupta, B. K., Mawari, G., Hira, H. S., Sekhri, T., & Bharali, D. (2018). Assessment of osteoporosis and osteopenia and its co-relation with disease severity in patients of chronic obstructive pulmonary disease with respect to associated risk factors: A case control study in India. *Journal of Pulmonary and Respiratory Medicine*, 8(456), 2.

Dhar, J., Meena, A., Daga, M. K., & Aggarwal, S. (2018). Granulomatosis with Polyangiitis Presenting as a Diagnostic Challenge: A Report of two Cases with Literature Review. *Journal of Clinical & Diagnostic Research*, 12(4), OD15-OD18.

Daga, M. K., Singh, S., & Mawari, G. (2018). Medical Nutrition Therapy: An Essential Component of COPD Care. *Current Respiratory Medicine Reviews*, 14(3), 149-155.

Daga, M. K., Kumar, L., & Mawari, G. (2018). COPD and Gastroesophageal Reflux Disease: A Double Blow. *Current Respiratory Medicine Reviews*, 14(2), 77-82.

Mondal, A., Pradhan, G., Manchanda, A., Garg, A., Daga, M.K., Jain, S. L. (2018). Role of Perfusion Computed Tomography in the Characterization of Lung Cancers. *Journal of Medical Science And Clinical Research*, 6, 662- 669.

Nath, S., Parmar, P., Shadab, S., Garg, S., Kumar, S., Scaria, V., & Shivasubbu, S. (2018). ZNF469 mutation in a case of Ehlers–Danlos syndrome presenting with glomerulonephritis. *International Journal of Academic Medicine*, 4(3), 299.

Singh, S., Daga, M. K., Hira, H. S., Kumar, L., & Mawari, G. (2018). Correlation of chronic obstructive pulmonary disease assessment test and clinical chronic obstructive pulmonary disease questionnaire score with BODE index in patients of stable chronic obstructive pulmonary disease. *Lung India: official organ of Indian Chest Society*, 35(6), 494-498.

Singh, V., Garg, S., Dhanwal, D. (2018). Prevalence of Vitamin D deficiency in CAD diabetic and Non-CAD diabetic patients in Northern India. *Journal Advanced Research in Medicine*, 5(3), 19-22.

Singh, S., Daga, M. K., Kumar, A., Husain, S. A., & Kar, P. (2019). Role of oestrogen and its receptors in HEV-associated foeto-maternal outcomes. *Liver International*, 39(4), 633-639.

Thoyyib, M., Garg, S., Gupta, N., Aggarwal, S., & Pandit, S. (2018). Study on coagulation factor VIII and fibrinogen levels in patients with thyroid disorders. *Indian journal of endocrinology and metabolism*, 22(4), 479-484.

### **Seminars Organized**

CME-Medicine 2018 , MAMC College New Delhi, for the MD and DNB students of Medicine. Oct 2018

Workshop on Viral Hepatitis at Lok Nayak Hospital, Dec., 2018 .

Medicine Update 2018, at Maulana Azad Medical College, Mar., 2018

MAMC Medicine Midterm CME , Oct., 2018.

### **Conferences Organized**

International conference on “Challenge of Climate Change and Air Pollution – Impact on Health and Economic Burden” Maulana Azad Medical College, New Delhi. Dec., 2018.

### **Seminar/Conference Presentations**

Aggarwal S delivered a lecture on Stem cell therapy in various diseases: Dawn of a new Era in APICON, 2018.

Ahlawat RS speaker for a CME, Medicine Update -2018, in a session on Recent advances on management of Nephrotic syndrome, MAMC auditorium , New Delhi. 2018

Daga MK delivered talk during AIIMS Pulmocrit – 2018, Update in Pulmonary, Critical Care & Sleep Medicine, Mar.– Apr., 2018.

Kumar N delivered a Guest Lecture on Fever, Conference on "JWARA (Fever, Dengue, Chikungunya)" organized by the Delhi State Unit of All India Ayurvedic Congress, New Delhi, Sept., 2018.

Garg S delivered a lecture on Controversies in treatment of Gestational Diabetes Mellitus-Metformin v/s Insulin in APICON 2018, Bengaluru, Feb., 2018.

### **Students under Exchange Programme**

23 trainees for Diploma in Geriatric Medicine (PGDGM, IGNOU) (From May to November 2018 (Six Months)

**Faculty Strength:** 13

### **Other Significant information**

Dr. Anuradha is Program Director Center of Excellence in HIV, conducted the training programmes and workshops for NACO/WHO/ DSACS.

Dr. M.K. Daga is honorary faculty in Medical Education Unit, MAMC

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## **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), Postgraduate (MD) and Ph.D students. 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.

Laboratories in the Department are well equipped with latest equipment, such as Vitek-2 Compact System, BAC/T Alert System, DNA Sequencer, CobasTaqman 48 Analyzer, BD FACS Count System and Fully Automated ELISA processor. The HIV Laboratory in the department functions as a State Reference Laboratory (SRL) for HIV under the aegis of NACO. The HIV testing performed by rapid tests has been accredited by NABL. The department has number of publications in peer reviewed scientific journals and some of the faculty are authors of well-known Microbiology text books.

### **Honours / Distinction**

Dr. C.P. Baveja

Awarded “Doctor State Award” from Government of NCT of Delhi.

Awarded “Distinguished Alumnus Award” of Maulana Azad Medical College, New Delhi.

Dr. Rohit Chawla

Awarded with the Diplomateship of the American College of Microbiology, United States of America, in the field of Medical & Public Health Microbiology; Diplomateship of the Royal College of Pathologists

(DipRCPATH), United Kingdom; with the Fellowship of the Canadian College of Microbiologists ( FCCM), Canada.

## Publications

Aggarwal, P., Kashyap, B. (2018). Biofilm production by clinically isolated *Candida*: Comparative analysis based on specimen, methodology, and various *Candida* species. *Indian Journal of Medical Specialities*, 9, 69–72.

Aggarwal, P., Bhattar, S., Bhalla, P., Sharma, S. (2018). Correlation between venereal diseases research laboratory titers and CD4 T-lymphocyte count determined by flow cytometry in HIV-infected adults: A 5-year study. *Indian Journal of Sexually Transmitted Diseases*, 39, 13-7.

Chaudhry, R., Kokkayil, P., Ghosh, A., Bahadur, T., Kant, K., Saga, T., Kabra, S.K., Lodha, R., Dey, A.B., Menon, V. (2018). *Bartonellahenselae* infection in diverse clinical conditions in a tertiary care hospital in north India. *Indian Journal of Medical Research*, 147(2), 189-194.

Chawla, R., Sud, A., Ahmad, N., Baveja, C.P. (2018) Ventriculoperitoneal Shunt-Associated Meningitis Caused by *Candida auris*: A Case Report. *MAMC Journal of Medical Sciences*, 4(3), 149

Gupta, R., Thakur, R., Kushwaha, S., Jalan, N., Rawat, P., Gupta, P., Aggarwal, A., Gupta, M., Manchanda V. (2018) Isoniazid and rifampicin heteroresistant *Mycobacterium tuberculosis* isolated from tuberculous meningitis patients in India. *Indian Journal of Tuberculosis*, 65(1), 52-56.

Jajoo, M., Manchanda, V., Chaurasia, S, Kumar, S., et al. (2018). Alarming rates of antimicrobial resistance and fungal sepsis in outborn neonates in North India. *PLoS One*, 13(6), e0180705. <https://doi.org/10.1371/journal.pone.0180705>.

Jayaraman, Y., Mehendale Jayaraman, R., Manchanda, V., et al. (2018) Immunochromatography in CSF improves data on surveillance of *S. pneumoniae* meningitis in India. *Journal of Infection and Public Health*, <https://doi.org/10.1016/j.jiph.2018.01.002>

Kumar, S., Roy, R.D., Sethi, G.R., Saigal, S.R. (2018) *Mycoplasma pneumoniae* infection and asthma in children. *Tropical Doctors*, doi: 10.1177/0049475518816591.

Kumar, S., Garg, I.B., Sethi, G.R. (2018). *Mycoplasma pneumoniae* in Community-Acquired Lower Respiratory Tract Infections. *Indian Journal of Pediatrics*, 85(6), 415-419.

Kumar, S., Garg, I.B., Sethi, G.R., Kumar, S., Saigal, S.R. (2018). Detection of immunoglobulin M and immunoglobulin G antibodies to *Mycoplasma pneumoniae* in children with community-acquired lower respiratory tract infections. *Indian Journal of Pathology and Microbiology*, 61(2), 214-218.

Kumar, S., Mehra, B., Sethi, G.R., Saigal, S.R. (2018). Rapid detection of respiratory syncytial virus in community-acquired lower respiratory tract infections in children by chromatographic assay. *Indian Journal of Pathology and Microbiology*, 61(2), 236-260.

Kumar, S. (2018) *Mycoplasma pneumoniae*: A significant but underrated pathogen in paediatric community-acquired lower respiratory tract. *Indian Journal of Medical Research*, 147(1), 23-31.

Manchanda, V., Suman, U., Singh, N. (2018). Implementing Infection Prevention and Control Programs When Resources Are Limited. *Current Treatment Options in Infectious Diseases*, 10(1), 28-39.

, M., Natarajan, R., Shah, D., Puri, A.S., Manchanda, V., Kotru M. (2018). Celiac Disease in Children with Moderate-to-Severe Iron-deficiency Anemia. *Indian Pediatrics*, 55, 31-34.

Nirmal, K., Manchanda, V., Baveja, C.P.(2018). Isolation and current trend in Antimicrobial Resistance for *Shigella* in Diarrhea patients in New Delhi: Hospital Based Study. *Journal of Communicable Diseases*, 50(3), 22-27.

Sharma, S., Uppal, B., Manchanda, V., Sud, A. (2018). Diagnostic utility of procalcitonin as biomarker of sepsis in children. *Infectious Diseases*, 50(7), 567–568.

### **Journals**

Number of Department teachers serving as Editors/members of Editorial Board: 3

Dr. CP Baveja Member, Editorial Board, MAMC Journal of Medical Sciences

Dr. Vikas Manchanda member of Editorial Board

Journal of Patient Safety and Infection Control (Journal of Hospital Infection Society of India (HISI));  
Astrocyte (Journal by National Board of Examinations (NBE)); Jeevanu Times (Publication from Indian Association of Medical Microbiologists, Delhi Chapter)

Web Editor IAMM Delhi Chapter; Web Editor Hospital Infection Society, India

### **Seminars Organized**

Workshop on “Staphylococcal phage typing” for final year M.D. (Microbiology) students of Delhi University, Jan., 2019.

Workshop on “External Quality Assessment Scheme for HIV Serology” for laboratory technicians of linked ICTCs and PPTCTs, Mar., 2019.

As part of activity related to Regional STI Reference, Research and Training Centre, a CME Programme for Postgraduate Students on “STIs and RTIs”, Mar., 2019.

Organized training programs on Biomedical Waste Management for Senior Residents, Junior Residents and Technical Staff of Maulana Azad Medical College.

### **Seminar/Conference Presentations (National / International)(Selected)**

Rohit Chawla

Delivered a talk on “Dos and Don’ts of Clinical Microbiology” and took part as a panelist during panel discussion in “Critical Care Update on Infections”, organized by the Indian Society of Critical Care Medicine, Vadodara, Apr., 2018.

lectures on “External Quality Assessment Scheme for HIV Serology”, “Internal Quality Control” & “Biosafety & Post-exposure Prophylaxis” during workshop on External Quality Assessment Scheme for HIV Serology for linked ICTCs and PPTCTs, Mar., 2019.

### **Students under Exchange Programme**

B.Sc. (Biotechnology and Biomedical sciences)

B. Tech (Biotechnology)

MLT students from other institutions

### **Faculty Strength: 7**

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## **MICROBIOLOGY (UCMS)**

### **Major Activities and Achievements**

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 / Distinction**

Dr. Shukla Das was awarded competency based international exemplar Global Six Sigma Green Belt body of knowledge Certificate , Aug., 2018.

### **Publications**

Balyan, P., Ghosh, C., Das, S., & Banerjee, B. D. Spatio-Temporal Variations of Indoor Bioaerosols in Different Socio-Economic Zones of an Urban Metropolis. *Polish Journal of Environmental Studies*. 01311-2017-03.

Choudhury, D. D., Singh, N. P., Rai, S., Batra, P., & Manchanda, V. (2018). Carbapenem resistant Enterobacteriaceae neonatal gut colonization: A future concern in healthcare settings. *Indian Journal of Microbiology Research*, 5(3), 348-354.

Das, S., Tigga, R., Rai, G., Singh, P. K., Datt, S., Tyagi, A., & Singh, N. P. (2018). *Candida auris* colonization in an immunocompetent patient: A new threat in medical ICU. *Medical mycology case reports*, 21, 54-56.

Dar, S. A., Rai, G., Ansari, M. A., Akhter, N., Gupta, N., Sharma, S., ...& Chakrabarti, A. (2018). FcεR1α gene polymorphism shows association with high IgE and anti-FcεR1α in Chronic Rhinosinusitis with Nasal Polyposis. *Journal of cellular biochemistry*, 119(5), 4142-4149.

Das, S., Rai, G., Tigga, R.A., Srivastava, S., Singh, P.K., Sharma, R., Datt, S., Singh, N.P., Dar, S.A. (2018). *Candida auris* in critically ill patients: Emerging threat in intensive care unit of hospitals. *Journal de Mycologie medicale*, 28(3), 514-518.

Jain, A.K., Jaggi, K.R., Bhayana, H., Saha, R. (2018). Drug-resistant spinal tuberculosis. *Indian J Orthop*, 52, 100-107.

Gupta, N., Kashyap, B., Dewan, P., Hyanki, P., Singh, N.P. (2018). Clinical spectrum of pediatric tuberculosis: a microbiological correlation from a tertiary care center. *J Tropical Pediatrics*, fmy026, <https://doi.org/10.1093/tropej/fmy026>.

Jakhar, S.K., Pandey, M., Shah, D., Ramachandran, V.G., Saha, R., Gupta, N., Gupta, P. (2018). Etiology and risk factors determining poor outcome of severe pneumonia in under-five children. *Indian J Paediatr*, 85(1), 20-24.

Janahi, E.M.A., Haque, S., Akhter, N., Wahid, M., Jawed, A., Mandal, R.K., Lohani, M., Areeshi, M.Y., Almalki, S., Das, S., Dar, S.A. (2018). Bioengineered intravaginal isolate of *Lactobacillus plantarum* expresses gal lectin scytovirin demonstrating anti-HIV-1 activity. *Microb Pathog*, 122, 1-6.

Janahi, E.M.A., Das, S., Bhattacharya, S.N., Haque, S., Akhter, N., Jawed, A., Wahid, M., Mandal, R.K., Lohani, M., Areeshi, M.Y., Ramachandran, V.G., Almalki, S., Dar, S.A. (2018). Cytomegalovirus aggravates the autoimmune phenomenon in systemic autoimmune diseases. *Microb Pathog*, 120, 132-139.

Kashyap, B., Tiwari, U., Prakash, A. (2019). Hepatitis B virus transmission and health-care workers: Prevention, management, and awareness toward the disease. *Indian J Medical Specialities*, 10(1), 6-11.

Kashyap, B., Gupta, N., Dewan, P., Hyanki, P., Singh N.P. (2019). High Sensitivity C Reactive Protein: An Adjunct Diagnosis in Ruling Out Pediatric Tuberculosis. *Indian J Clin Biochem*. [doi.org/10.1007/s12291-018-0806-2](https://doi.org/10.1007/s12291-018-0806-2).

Kumar A, Sagar P, Kashyap B, Madhu SV, Aditi, Jain N. Bacteriological profile of sepsis and its correlation with procalcitonin in patients with diabetes mellitus. *International J Diabetes Developing Ctries* 2019; 39(1): 144-147.

Kashyap, B., Goyal, N., Gupta, N., Singh, N.P., Kumar, V. (2018). Evaluation of Treponema Pallidum Hemagglutination Assay among varying titres of the Venereal Disease Research Laboratory Test. *Indian J Dermatol*, 63, 479-483.

Kashyap, B., Kashyap, B., Singh, A.K. (2018). Knowledge, Attitude and Practice (KAP) survey on the perception and approach of students to identify the gap in teaching and learning process in the 2nd year MBBS curriculum. *International J Medical Sciences Innovative Research*, 3(4), 206-211.

Kashyap, B., Goyal, N., Das, G.K., Singh, N.P., Kaur, I.R. (2018). Ophthalmic presentation of disseminated tuberculosis with relapse- immunological profile. *Indian J Clinical Biochemistry*, 33(4), 483-486.

Kashyap, B., Tiwari, U., Prakash, A. (2018). Hepatitis B virus transmission and health care workers: epidemiology, pathogenesis and diagnosis. *Indian J Medical Specialities*, 9(1), 30-35.

Kashyap, B., Goyal, N., Singh, N.P., Kaur, I.R. (2018). Diagnostic Potential of Circulating Biomarkers in Adenosine Deaminase Diagnosed Pleural Tuberculosis Cases. *Indian J Clinical Biochemistry*, 33(3), 334-340.

P, Aggarwal., B, Kashyap. (2018). Biofilm production by clinically isolated Candida: Comparative analysis based on specimen, methodology, and various Candida species. *Indian J Medical Specialities*, 9 (2), 69-72.

Rai, G., Das, S., Ansari, M.A., Singh, P.K., Gupta, N., Sharma, S., Akhter, N., Ramachandran, V.G., Haque, S., Dar, S.A. (2018). Phenotypic and functional profile of Th17 and Treg cells in allergic fungal sinusitis. *Int Immunopharmacol*, 57,55-61.

Sonthalia, S., Agrawal, M., Goldust, M., Das, S., Bhattacharya, S.N. (2018). Antifungal therapeutic failures in India: an important issue being overlooked. *Lancet Infect Dis*,18(11),1181-1182.

Saha, R.,Grover, H.,Singh, M.,Jamir, S.T., Saxena, B., Khan, A.M., Singh, N.P. (2018). Transmission of microbes through fresh herbs and method of using them as safe condiments. *J Gastrointest Infect*, 8(1), 22-27.

Sagar, P., Kumar, A., Madhu, S.V., Kashyap, B. (2018). How good is procalcitonin as a marker in case of sepsis in diabetes mellitus? *International J Diabetes Dev Ctries*, 38(2), 185-190.

Singh, N.P., Choudhury, D.D., Gupta, K., Rai, S., Batra, P., Manchanda, V., Saha, R., Kaur, I.R. (2018). Predictors for gut colonization of carbapenem-resistant Enterobacteriaceae in neonates in a neonatal intensive care unit. *American journal of infection control*,46(6),e31-5.

Tigga, R.A., Das, S., Bhattacharya, S.N., Saha, R., Pandhi, D., Datt, S., Rai, G. (2018). Burden of Chronic Dermatophytosis in a Tertiary Care Hospital: Interaction of Fungal Virulence and Host Immunity. *Mycopathologia*, 183(6), 951-959

## **Journals**

Dr. Rumpa Saha is Associate Editor of Journal of Gastrointestinal Infections, official Journal of Gastrointestinal Society of India w.e.f. March 2019

## **Research Projects**

DBT, 20 Lakhs 2017-2020."Investigation of mechanisms of emerging drug resistance in Trichophyton sp., the major causative agents of fungal skin infections".

DST, 50 Lakhs Th17 and Treg cell differentiation and their in-vitro functional responses in Pemphigus vulgaris".

IMRG, Rs.25000 Prevalence of candidemia in Febrile pediatric patients with lymphoneticular malignancy  
Dr.Suchita, Dr. Shukla Das.



IMRG, Rs.25000 Prevalence of *Trichomonas vaginalis* and evaluation of accuracy of microscopy, culture and PCR for its diagnosis: a hospital based study Dr. Sweety Singh, Dr. Rumpa Saha, Dr Amita Suneja.

IMRG, Rs.25000, Determination of ELISA reactive Mumps IgG antibody in MMR vaccine recipients and MMR vaccine naïve children: a cross sectional study Dr. Bhoomika, Dr. Rumpa Saha, Dr. V G Ramachandran.

IMRG, Rs.25000. Etiology and risk factors for hospital acquired diarrhea. Dr Nupur, Dr Dheeraj Shah, DrRumpaSaha, Dr V G Ramachandran.

IMRG, Rs.25000 Clinical profile and role of video assisted thoracoscopic surgery in empyema thoracis: an observational study. Dr Himanshu Shekar, Dr Naveen Sharma, DrRumpaSaha, DrPankaj Aggarwal

IMRG, Rs.25000 Analysis of potential donor for bone bank in a tertiary care hospital. DrAhmer Zafar, Dr A K Jain, Dr. Rumpa Saha. .

IMRG, Rs.25000 Prevalence of carbapenemase encoding genes in klebsiella isolates from Neonatal sepsis. Dr. Seema, Dr. N.P. Singh.

IMRG, Rs.25000 Study of resistance to colistin and Tigecycline in klebsiella species isolated from clinical specimens of ICU patients. Dr. Dibyashree, Dr. N.P. Singh. /-.

IMRG, Baseline high sensitivity with reactive protein level on smear positive pulmonary tuberculosis patients. Dr. Krishna, Dr. Bineeta Kashyap. Rs.25000/-.

#### **Seminars Organized**

Conducted International Immunology Day ,invited guest speaker DrUrmiBajpai “ Phage Therapy”, Apr., 2018

Gender awareness for students & faculty on Cyber Alert, invited speaker from NCW , Delhi Feb., 2019.

#### **Conference Presentations (National / International) (Selected)**

Shukla Das

Invited Speaker at Dermacon 2018 IVDL , Skin Testing & Immune response in dermatophytosis. Nov., 2018.

Invited Speaker at SARCCUM at Medanta Hospital, Clinico- mycological evidence & host immune response in chronic cutaneous mycoses, Nov 2018.

Dr. Rumpa Saha was invited as a guest faculty for talk on Analysis & Interpretation of a Microbiological Culture Sensitivity Report: What is hidden behind at. Sant Parmanand Hospital, Delhi, Mar., 2019.

Dr. N.P. Singh presented Paper at MICROCON 2018, XXXIX National Conference of Indian Association of Medical Microbiologists, at NIMHANS , Bangalore Sept., 2018.

**Number of M.Phil./Ph.D. Degrees Awarded - 1**

**Faculty Strength - 4**

#### **Other Significant information**

Dr. N.P. Singh was Executive member of IAMM, National Chapter from 2016-2018; Executive member IAMM, Delhi Chapter, 2018-19; Member of Board of Research Studies, Deptt. of Microbiology, AMU, Aligarh 2018-19.

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## MICROBIOLOGY (VPCI)

### Major Activities and Achievements

Department of Microbiology at VP Chest Institute is actively involved in diagnostics, teaching and research. A number of diagnostics 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 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. Virology is actively involved in influenza virus diagnostics and epidemiological research. Major focus of laboratory is antiviral research and Vaccines development against influenza and chikungunya virus.

### Honours / Distinction

Dr. Anuradha Chowdhary was awarded Women Achiever Award in Health Care by AMITY University, Uttar Pradesh, India 2018.

### Publications

Aditi, Shariff, M. (2019). Nipah virus infection: A review. *Epidemiology and Infection*, 147,e95, 1-6.

Arendrup, M.C., Chowdhary, A., Astvad, K.M.T, Jørgensen, KM. (2018). APX001A in vitro activity against contemporary blood isolates and *Candida auris* determined by the EUCAST reference method. *Antimicrob Agents Chemother*, 62. Pii, e01225-18.

Asha, K., Kumar, P., Sanicas, M., Meseko, C., Khanna, M., & Kumar, B. (2018). Advancements in Nucleic Acid Based Therapeutics against Respiratory Viral Infections. *Journal Of Clinical Medicine*, 8(1), 6. doi: 10.3390/jcm8010006

Bidaud, A., Chowdhary, A., & Dannaoui, E. (2018). *Candida auris*: An emerging drug resistant yeast – A mini-review. *Journal De Mycologie Médicale*, 28(3), 568-573.

Buil, J., Hagen, F., Chowdhary, A., Verweij, P. and Meis, J. (2018). Itraconazole, Voriconazole, and Posaconazole CLSI MIC Distributions for Wild-Type and Azole-Resistant *Aspergillus fumigatus* Isolates. *Journal of Fungi*, 4(3), p.103.

Chowdhary, A., Prakash, A., Sharma, C., Kordalewska, M., Kumar, A., & Sarma, S. et al. (2018). A multicentre study of antifungal susceptibility patterns among 350 *Candida auris* isolates (2009–17) in India: role of the ERG11 and FKS1 genes in azole and echinocandin resistance. *Journal Of Antimicrobial Chemotherapy*, 73(4), 891-899.

Chowdhary, A., Singh, A., Singh, P., Khurana, A., & Meis, J. (2018). Perspectives on misidentification of *Trichophyton interdigitale*/*Trichophyton mentagrophytes* using internal transcribed spacer region sequencing: Urgent need to update the sequence database. *Mycoses*, 62(1), 11-15. doi: 10.1111/myc.12865

Colley, T., Sharma, C., Alanio, A., Kimura, G., Daly, L., & Nakaoki, T. et al. (2019). Anti-fungal activity of a novel triazole, PC1244, against emerging azole-resistant *Aspergillus fumigatus* and other species of *Aspergillus*. *Journal Of Antimicrobial Chemotherapy*. 62. pii: e01941-17.

Cortegiani, A., Misseri, G., Fasciana, T., Giammanco, A., Giarratano, A., & Chowdhary, A. (2018). Epidemiology, clinical characteristics, resistance, and treatment of infections by *Candida auris*. *Journal Of Intensive Care*, 6(1), 69.

- De Groot, T., Hagen, F., Vreuls, W., Verweij, P., Chowdhary, A., & Meis, J. (2018). Genotyping of *Aspergillus fumigatus* in Formalin-Fixed Paraffin-Embedded Tissues and Serum Samples From Patients With Invasive Aspergillosis. *Frontiers In Cellular And Infection Microbiology*, 8, 377.
- Deepak, D., Singh Rajput, M., Sharma, B., & Chowdhary, A. (2019). Allergic Bronchopulmonary Mycosis due to fungi other than *Aspergillus*. *European Annals Of Allergy And Clinical Immunology*, 51(02), 75-79.
- Fakhim, H., Vaezi, A., Dannaoui, E., Sharma, C., Mousavi, B., & Chowdhary, A. et al. (2018). In vitro combination of voriconazole with micafungin against azole-resistant clinical isolates of *Aspergillus fumigatus* from different geographical regions. *Diagnostic Microbiology And Infectious Disease*, 91(3), 266-268
- Fakhim, H., Vaezi, A., Dannaoui, E., Chowdhary, A., Nasiry, D., & Faeli, L. et al. (2018). Comparative virulence of *Candida auris* with *Candida haemulonii*, *Candida glabrata* and *Candida albicans* in a murine model. *Mycoses*, 61(6), 377-382.
- Giri, A., Safi, H., Cabibbe, A.M., Gupta, S., Narang, A., Tyagi, G., Shrivastava, K., Kumar, Chanchal., Sharma, N., Lingaraju, S., Trovato, A., Battaglia, S., Cirillo, D. M., Bose, M., Alland, D., Varma-Basil, M. (2019). Lack of association of novel mutation Asp397Gly in *aftB* gene with ethambutol resistance in clinical isolates of *Mycobacterium tuberculosis*. *Tuberculosis*, 115,49-55
- Healey, K., Kordalewska, M., Jiménez Ortigosa, C., Singh, A., Berrío, I., Chowdhary, A., & Perlin, D. (2018). Limited ERG11 Mutations Identified in Isolates of *Candida auris* Directly Contribute to Reduced Azole Susceptibility. *Antimicrobial Agents And Chemotherapy*, 62(10), pii: e01427-18.
- 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.
- Kiran, B., Jayanthi, G., Shariff, M. (2018). Phenotypic and molecular characterization of extended-spectrum beta-lactamase producing clinical isolates of *Klebsiella pneumoniae*. *Int J Scientific Res*, 7,63-65.
- Khanna, M., Saini, S., Shariff, M., Ronsard, L., Singh, J., & Kumar, H. (2019). Data highlighting miR-155 and GAPDH correlation. *Data In Brief*, 24, 103945. doi: 10.1016/j.dib.2019.103945
- Khurana, A., Masih, A., Chowdhary, A., Sardana, K., Borker, S., & Gupta, A. et al. (2018). Correlation of In Vitro Susceptibility Based on MICs and Squalene Epoxidase Mutations with Clinical Response to Terbinafine in Patients with Tinea Corporis/Cruris. *Antimicrobial Agents and Chemotherapy*, 62(12). Doi, pii: e01038-18.
- Kumar, B., Asha, K., Khanna, M., Ronsard, L., Meseko, C., & Sanicas, M. (2018). The emerging influenza virus threat: status and new prospects for its therapy and control. *Archives of Virology*, 163(4), 831-844, pii: e00238-18.
- Kumar, B., Asha, K., Khanna, M., Ronsard, L., Meseko, C., & Sanicas, M. (2018). The emerging influenza virus threat: status and new prospects for its therapy and control. *Archives of Virology*, 163(4), 831-844. doi: 10.1007/s00705-018-3708-y
- Martínez-Murcia, A., Navarro, A., Bru, G., Chowdhary, A., Hagen, F., & Meis, J. (2018). Internal validation of GPS<sup>TM</sup>MONODOSE CanAur dtec-qPCR kit following the UNE/EN ISO/IEC 17025:2005 for detection of the emerging yeast *Candida auris*. *Mycoses*, 61(11), 877-884. doi: 10.1111/myc.12834
- Mathur, P., Hasan, F., Singh, P., Malhotra, R., Walia, K., & Chowdhary, A. (2018). Five-year profile of candidaemia at an Indian trauma centre: High rates of *Candida auris* blood stream infections. *Mycoses*, 61(9), 674-680. doi: 10.1111/myc.12790
- Meis, J., Chowdhary, A. (2018). *Candida auris*: a global fungal public health threat. *The Lancet Infectious Diseases*, 18(12), 1298-1299. doi: 10.1016/s1473-3099(18)30609-1

Prakash, A., Randhawa, H., Khan, Z., Ahmad, S., Hagen, F., Meis, J., & Chowdhary, A. (2018). Environmental distribution of *Cryptococcus* species and some other yeast-like fungi in India. *Mycoses*, *61*(5), 305-313.

Resendiz Sharpe, A., Lagrou, K., Meis, J., Chowdhary, A., Lockhart, S., & Verweij, P. (2018). Triazole resistance surveillance in *Aspergillus fumigatus*. *Medical Mycology*, *56* (suppl\_1), S83-S92.

Ropars, J., Maufrais, C., Diogo, D., Marcet-Houben, M., Perin, A., & Sertour, N. et al. (2018). Gene flow contributes to diversification of the major fungal pathogen *Candida albicans*. *Nature Communications*, *9*(1). doi: 10.1038/s41467-018-04787-4.

Shariff, M., Aditi, A., Beri, K. (2018). *Corynebacterium striatum*: an emerging respiratory pathogen. *The Journal of Infection In Developing Countries*, *12*(07), 581-586.

Sharma, S., Sheoran, A., Gupta, K., Yadav, A., Varma-Basil, M., & Sreenivas, V. et al. (2019). Quantitative detection of a cocktail of mycobacterial MPT64 and PstS1 in tuberculosis patients by real-time immuno-PCR. *Future Microbiology*, *14*(3), 223-233.

Singh, A., Healey, K., Yadav, P., Upadhyaya, G., Sachdeva, N., & Sarma, S. et al. (2018). Absence of Azole or Echinocandin Resistance in *Candida glabrata* Isolates in India despite Background Prevalence of Strains with Defects in the DNA Mismatch Repair Pathway. *Antimicrobial Agents And Chemotherapy*, *62*(6), pii: e00195-18.

Singh, A., Singh, P., de Groot, T., Kumar, A., Mathur, P., & Tarai, B. et al. (2019). Emergence of clonal fluconazole-resistant *Candida parapsilosis* clinical isolates in a multicentre laboratory-based surveillance study in India. *Journal of Antimicrobial Chemotherapy*, *74*(5), 1260-1268.

Srivastava, S., Bimal, D., Bohra, K., Singh, B., Ponnann, P., & Jain, R. et al. (2018). Synthesis and antimycobacterial activity of 1-( $\beta$ -d-Ribofuranosyl)-4-coumarinyloxymethyl- / -coumarinyl-1,2,3-triazole. *European Journal of Medicinal Chemistry*, *150*, 268-281.

Vatanshenassan, M., Boekhout, T., Meis, J., Berman, J., Chowdhary, A., & Ben-Ami, R. et al. (2019). *Candida auris* Identification and Rapid Antifungal Susceptibility Testing Against Echinocandins by MALDI-TOF MS. *Frontiers in Cellular and Infection Microbiology*, *9*. doi: 10.3389/fcimb.2019.00020

## Book Chapters

Varma-Basil, M., Bose, M. (2019). Mapping the footprints of Nontuberculous Mycobacteria: A diagnostic dilemma. In *Nontuberculous Mycobacteria: Microbiological, clinical and geographical distribution*. Academic Press, Elsevier. Ed. Velayati AA, Farnia P.

## Journals

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board: 04

## Research Projects

Dr. Malini Shariff, (ICMR sponsored project, 2017-2010). " Isolation and Characterization of Anaerobic Bacteria causing Lower Respiratory Tract Infections in Patients attending VP Chest Institute, Delhi.

Dr. Mandira Varma Basil (ICMR. 2015-2018). , "Phenotypic and Genotypic Indicators of drug resistant tuberculosis: Can they be used as early warning systems for MDR and XDR tuberculosis?"

Dr. Madhu Khanna, (DST-SERB). Aptamer-mRNA Chimera- The Next Generation RNA Vaccine

Dr. Anuradha Chowdhary (ICMR) (2017-2020). Multilocus microsatellite typing and antifungal profile of clinical *Cryptococcus neoformans* species complex isolated from patients of cryptococcosis.

### **Conferences Organized**

Antifungal resistance in *Candida* and *Aspergillus*: from clinic to clinical laboratory. European Society Clinical Microbiology and Infectious Diseases (ESCMID) European Confederation for Medical Mycology (ECMM) . Sept., 2018.

CME on “Mapping the footprints of NTM infection”, Vallabhkhair Patel Chest Institute, in collaboration with Delhi Chapter, IAMM , Nov., 2018.

### **Seminar/Conference Presentations**

Dr. Anuradha Chowdhary

Presented a guest lecture entitled “Identification and antifungal susceptibility of *Candida auris*”. 20th Congress of the International Society for Human and Animal Mycology (ISHAM) RAI Amsterdam, the Netherlands, July, 2018.

Presented a lecture entitled “Fungal human pathogens: from obscure significance to impending disasters at 11<sup>th</sup> International Mycological Congress, San Juan, Puerto Rico, July, 2018.

Presented a Guest lecture entitled, “Changing epidemiology of nosocomial fungal infections 17<sup>th</sup> Asia Pacific Congress of Clinical Microbiology and Infection cum 8th International Infection Control Conference, Hong Kong .Aug.,- Sept, 2018,

Presented a Guest lecture entitled, “New Insights in epidemiology of *Aspergillus fumigatus*” Continued Antifungal Research & Education, Vienna, Austria, Oct, 2018.

Mandira Varma Basil Speaker Mapping the footprints of NTM infection, VPCI and Delhi Chapter, IAMM, Nov., 2018.

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

**Ph.D.** - 4

**Faculty Strength** - 4

### **Other Significant information**

Prof. Mandira Varma Basil & Chanchal Kumar, Shraddha Gupta, Kamal Shrivastava, AsthaGiri, Naresh Kumar Sharma, awarded First prize in poster at IAMM-DC conference held at Lady Harding Medical college on 21<sup>st</sup> April, 2018., A comparison of phenotypic method of drug susceptibility profiling of *Mycobacterium tuberculosis* with sloppy molecular beacon assay.

Dr. Anuradha Chowdhary WHO Consultant, to develop early implementation program for Antifungal resistance in *Candida* to be included in GLASS. Nov., 2018- Feb., 2019.

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## **MICROBIOLOGY (LHMC)**

### **Major Activities and Achievements**

The department processes patient samples in various different laboratories (Bacteriology, Mycology, Serology, TB, Parasitology, Hospital Infection Control) Approximately 5 lakh laboratory investigations done in 2018-19 in the different laboratories of the Microbiology department. It is also actively involved in the formulating of the antibiotic policies of the hospital, Hospital infection control and Biomedical waste management The department is also a participating laboratory under the National antimicrobial resistance network , India to implement the “ National program in containment of antimicrobial resistance”. Research projects entitled “Congenital Rubella Syndrome surveillance in India –a multicentric study” and “ Characterization and Antifungal resistance profile of Candidiasis” respectively are funded by Indian council of medical research The State Reference Laboratory for

HIV testing at LHMC was the first laboratory among the SRLs from Delhi to be accredited as per ISO15189:2012 norms by NABL. It has also been selected as one of the “Dried blood spot testing “Laboratories under Sentinel Surveillance. Induction and refresher Training Programme were organized for Laboratory technicians from various ICTCs, SRLs and NRL in Delhi.

The department got approval from DHR for Establishment of Medical college level Viral Research & Diagnostic Laboratory (VRDL).

### **Publications**

Arora, P., Sardana, K., Kaur, R., Goyal, R., & Ghunawat, S. (2018). Is antifungal resistance a cause for treatment failure in dermatophytosis: A study focused on tinea corporis and cruris from a tertiary centre?. *Indian Dermatology Online Journal*, 9(2), 90-95.

Bala, Y., Randhawa, V., Kaur, R., Saili, A., & Chitkara, S. (2018). Role of Procalcitonin in Diagnosis of Early Onset Neonatal Sepsis in a North Indian Tertiary Care Centre. *International Journal of Current Microbiology And Applied Sciences*, 7(08), 490-498.

Bala, Y., Randhawa, V.S., Saili, A., Kaur, R. (2018). A microbiological profile of early onset of neonatal sepsis in a tertiary care hospital in North India. *Indian J of Applied Microbiology*, 21(2), 20-28.

Chaudhary, M., Randhawa, V.S., Dutta, R., Jais, M., Kaur, R. (2018). Typing of Indian S Typhi isolates with special reference to Pulsotypes. *International J. of Scientific Engineering and Research*, 6(4), 82-85.

Gupta, R., Sharma, S., Saxena, S. (2018). Changing panorama for surveillance of device associated healthcare infections: Challenges faced in implementation of current guidelines. *Ind J Med Microbiol*, 36, 18-25.

Kaur, R., Mehra, B., Dhakad, M.S., Goyal, R., Dewan, R. (2017). Pulmonary aspergillosis as opportunistic mycoses in a cohort of human immunodeficiency virus-infected patients: Report from a tertiary care hospital in North India. *Int J Health Sci (Qassim)*, 11(2), 45-50.

Kaur, R., Mehra, B., Dhakad, M., Goyal, R., Bhalla, P., & Dewan, R. (2017). Utility of a serum Aspergillus galactomannan assay in diagnosis of invasive pulmonary Aspergillosis in HIV/AIDS patients: a prospective analysis. *Annals Of Pathology And Laboratory Medicine*, 4(5), A515-A521.

Kaur, R., Mehra, B., Dhakad, M., Goyal, R., Bhalla, P., & Dewan, R. (2018). Clinico-mycological analysis and antifungal resistance pattern in human immunodeficiency virus-associated candidiasis: An Indian perspective. *Indian Journal Of Sexually Transmitted Diseases And AIDS*, 39(2), 111.

Singh, G., Solo, M., Kaur, R., Arora, R., & Kumar, S. (2018). Mycology of chronic suppurative otitis media-cholesteatoma disease: An evaluative study. *American Journal Of Otolaryngology*, 39(2), 157-161.

Singh, R.K., Naik, S.K., Jais, M. et al. (2018). Screening of hepatitis c virus antibody among claimed and unclaimed dead bodies during medico-legal autopsy. *J Indian Acad Forensic Med*, 40(4), 318-321.

Thass, N., Kumar, M., Kaur, R. (2019). Prevalence and antibiogram of bacterial pathogens causing urinary tract infection in a tertiary care hospital. *International Journal of Medical Science and Public Health*, 8(1), 53-57

Thass, N., Kumar, M., Kaur, R. (2018). Myroides spp. Causing Urinary Tract Infection in an Immunocompromised Patient: A Case Report. *Ind Curr Microbiol App Sci*, 7(4), 997-1001

### **Research Projects**

Department of Health Research (DHR), Ministry of Health & Family Welfare (5 Crores). Establishment of Viral Research & Diagnostic Laboratory (VRDL) in LHMC.

ICMR (2831605). Characterization and Antifungal resistance profile.

ICMR. Congenital Rubella syndrome surveillance in India- A multicentric study

NCDC (8.4 Lakhs). National program for containment of antimicrobial resistance.

ICMR. 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 & Research Council of Norway. Indo Norway project entitled “Born in the twilight of antibiotics: Implications of antibiotic use to the preterm infant respiratory microbiome and resistance development”.

LHMC & PHFL, Colindale, London. National Salmonella Phage Typing Centre.

### **Seminars Organized**

IAMM Delhi Chapter 1<sup>st</sup> Chapter meet of 2018, “Infection Control & Prevention inside OT: A challenge” at LHMC Apr., 2018.

CME on Sterilization processes and its monitoring, Aug., 2018

Infection Control & Prevention : Training of Trainers, Seminar Hall, Microbiology, Dec., 2018

Preconference Workshop on Biomedical Waste and Infection Control Feb., 2019.

“Antimicrobial Stewardship workshop: a Competency based approach” for MBBS students from across the country as part of Medicus Convectus Mar., 2019.

### **Seminar/Conference Presentations (National / International) (Selected)**

Ravinder Kaur presented poster at 3<sup>rd</sup> International Master Class on Fungal Diseases “Mycocon 2018”, Hotel Pride Plaza, Aerocity, Sept., 2018.

Sonal Saxena delivered talk on

“Quality Control Issues in Antibiotic Susceptibility Testing by Disc Diffusion Technique”. CME: “Reliable Antimicrobial Sensitivity Testing in Era of AMR” at IHC, New Delhi . Nov., 2018.

“Challenges in AMR” at CME. IHC, New Delhi. Mar., 2019.

Sanjib Gogoi delivered a lecture at “Hand Hygiene & Standard precaution” on pre conference workshop of 4th International Conference on Occupational & Environmental Health (ICOEH 2019), at LHMC, New Delhi. Feb., 2019

### **Other Inter-Institutional Collaboration**

Characterization and Antifungal resistance profile of Candidiasis with Kalawati Saran Children s Hospital

### **Extension and Outreach Activities**

A National program for containment of antimicrobial resistance with NCDC & Ministry of Health & Family welfare.

### **Faculty Strength: 9**

### **Other Significant Information**

Ravinder Kaur has been awarded: A. Bhujwala award for outstanding scientific work in STI/diagnostic microbiology by Indian Association of Medical Microbiologist (IAMM)

Ravinder Kaur & Deepti Rawat won the Meghna Baveja Award for best poster for their poster titled : An etiological and Antifungal Profile of Candidemia In Children at the academic meet of Indian Association of Medical Microbiologists - Delhi Chapter, April, 2018

Deepti Rawat & Sanjib Gogoi: EMR duty as a part of Central Health team during Kerala Flood (01.09.2018-15.09.2018)

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## OBSTETRICS & GYNAECOLOGY (MAMC)

### Major activities and achievements

Department of Obstetrics & Gynecology provides tertiary care for the patients and conduct teaching, training and research programmes in Obstetrics & Gynecology. Teaching 250 undergraduate students and 20 postgraduates per year, fellowship of National Board of 2 students each in “Reproductive medicine” and “High risk pregnancy”. We have special clinics on Infertility and IVF, High risk pregnancy, Fetal Medicine, Gynecologic Endocrine, and Gynecologic Oncology . 21st practical course & CME in OBGY” was conducted by the Department. In this course from all over India more than 300 postgraduate students came and the entire faculty gave lectures and case discussions. A book was published from the dept. Training of trainers(TOTs) for family planning and PPIUCD. A total of 300 cases of IVF procedure were done with success rate of 42-45%.

### Publications

Kumar, A., Sharma, D. S., Verma, M., Lamba, A. K., Gupta, M. M., Sharma, S., & Perumal, V. (2018). Association between periodontal disease and gestational diabetes mellitus—A prospective cohort study. *Journal of Clinical Periodontology*, 45(8), 920–931.

Rana, A., Agarwal, K., Ramji, S., Gandhi, G., & Sahu, L. (2018). Safety of delayed umbilical cord clamping in preterm neonates of less than 34 weeks of gestation: a randomized controlled trial. *Obstetrics & Gynecology Science*, 61(6), 655-661.

Rani, R., Rathore, A. M., & Bhasin, S. (2019). Fatal outcome in acute fatty liver of pregnancy and review of literature. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*, 8(3), 1197-1199.

Singh, S., Daga, M. K., Kumar, A., Husain, S. A., & Kar, P. (2019). Role of oestrogen and its receptors in HEV -associated feto-maternal outcomes. *Liver International*, 39(4), 633–639.

### Research projects

Ashok Kumar (UGC): Vitamin-D supplementation in pregnancy

Ashok Kumar (ICMR): Development of prediction model for preeclampsia in diabetic pregnant women.

M. M Gupta (ICMR): Determinants of stillbirths among deliveries in a tertiary care hospital.

Sudha Prasad (ICMR): “To study the effect of counseling with Yoga based stress management on the clinical pregnancy rate and uterine artery flow parameters in women undergoing assisted reproduction”.

### Conferences organised

21st Practical course and CME in Obstetrics and Gynecology, Sept .,2018.

### Seminar/Conference presentations

Asmita M Rathore Annual Conf of NARCHI., New Delhi-delivered lecture on ‘Altered sensorium in pregnancy, Feb., 2018

Ashok Kumar . Delivered a talk on Timing of delivery; Intrapartum Monitoring & Postpartum Followup. CME series on High Risk Pregnancy, organized by Division of Fetal Medicine, AIIMS. Delhi. May, 2018.

### Faculty strength 17

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## 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 2018. Our faculty members have earned various honors & distinctions and won many awards & prizes in various national conferences for best paper / poster presentations. 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 Vashudha Gupta and Dr Nikita Bhatiya won best paper awards at the regional conferences held during Oct. and Nov. 2018. Dr Ayushi Rathore and Dr Anushree won North Zone Yuva FOGSI Quiz held at Noida in Feb. 2019.

### Honours/Distinctions

Dr. Alpana Singh

Junior Corion Award for the year 2018 for the research work ; titled as “Study of exposure to second hand smoke in pregnant women and its impact on pulmonary function and pregnancy outcome”. AICOG, Bangaluru Jan. ,2019

Gold Medal for best paper (Dr. Ganguli theme topic) in 25th annual conference of NARCHI Delhi for research paper titled as “Maternal pregnancy associated plasma protein-a (papp-a) levels in late first trimester as a predictor of miscarriage”. Feb., 2019.

FICOG (Fellow of Indian college of Obstetrics and Gynaecology) Jan., 2019.

Teachers of Teachers Award by East Delhi Gynae Forum Sept., 2018.

Dr. Gita Radhakrishnan

Delhi State Award for Service Doctors Delhi, Feb., 2018

Dr. Richa Sharma

FOGSI - Dr. C.S Dawn Prize on official theme topic (Optimizing Reproductive health).AICOG, Bangaluru , Jan., 2019.

FOGSI – Padmabhushan Kamlabai Hospet Award 2018.AICOG, Bengaluru, Jan., 2019.

FOGSI Leaders of Tomorrow Award 2019, North Zone Yuva FOGSI Conference Noida. Feb., 2019.

1st Prize - Revisiting Diagnostic and Therapeutic Challenges in Asherman's syndrome: A Retrospective Analysis of 5 years. DGES – ESGE Delhi Aug., 2018

Gold Medal (Poster) – A diagnostic dilemma during Hysterolaparoscopy. Regional GCH Asia Pacific.1st & 2nd December 2018

FOGSI Scholarship Award- Fellowship in minimally access Gyn Surgery (FMAS)

ICOG Scholarship Award- Fellowship in Advanced Infertility Course, Oct., 2018.

Dr. Shalini Rajaram

President, Association of Gynecologic Oncologists of India, 2018-2019; President, Society of Vaginal Surgeons, Delhi, 2018-19

Member, FOGSI Oncology Committee 2018-2021; Member, FOGSI, Endometriosis Committee, 2018-2021.

FOGSI Corion Award for Best Research (Senior Category), 2018, Evolution of Screening Tests for Cervical Cancer: From Conventional tests to Cellular Biomarkers, Genomics and Epigenetics, AICOG, Bengaluru, Jan., 2019

Best Society Award, FOGSI conferred on AOGD for Presidential year 2017-18 AICOG, Bengaluru, Jan., 2019.

AOGD President's Oration 'Evolution of screening tests for cervical cancer: Entering an era of biomarkers and genomics', 40th Annual Conference AOGD Delhi, 24th November 2018 .

ICOG - Dr. Usha Saraiya Guest Oration in Gynecologic Oncology 'Ovarian Cancer: Is it Preventable and treatable? Kanpur, October 2018.

APJ Abdul Kalam Award for Excellence Delhi Gynecologic Forum, August 2018

### **Publications**

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(2), 142-45.

Divya Chauhan, Singh A (2019). Split Hand/Foot Malformation: A Case Report and Review of Literature. *J Clin Diag Res*, 13(1), 05-06.

Gupta V, Jain S (2018). Jaundice in pregnancy. *J Ind Acad Clin Med*, 19(1), 52-57.

Vishnu Bhartiya, Richa Sharma (2018). Splenic hematoma mimicking Rupture Uterus : A diagnostic dilemma. *International Journal of Applied and Basic Medical Research* , 8(2),132-134.

Gupta V., Radhakrishnan G, Arora V, Singh A(2018) .Evaluation of endometrial scratching on intrauterine insemination outcome and endometrial receptivity. *Middle East Fertility Society Journal* ,23 ,363–369.

Jain S, Danodia K , Suneja A, Mehndiratta M, Chawla S(2018). Symptom Index for detection of ovarian malignancy in Indian women: a hospital based study. *J Ind Acad Clin Med*, 19(1), 27-32.

Meena, U. K., Jain, S., Vaid, N.B., Chawla, S., Guleria, K., Mehndiratta, M. ( 2018). Role of Serum Retinol Binding Protein 4 in preeclampsia: A case control study. *Ind Obstet Gynaecol journal* , 8( 2), 8-14.

Sharma R, Suneja A (2018). Incarcerated and Transmigrated Intrauterine Contraceptive Devices Managed at a Tertiary Care Teaching Hospital of East Delhi: A 5-Year Retrospective Analysis. *J Obs Gyn Ind*, 69(3):272-278.

Singh A, Verma AK, Srivastava A, Sharma T, Sundaram (2019). Study of exposure to second hand smoke in pregnant women and its impact on pulmonary functions and pregnancy outcomes. *Indian J Obstet Gynecol Re*, 6(1),11-14.

### **Chapter in books or manuals**

Bhaskaran, S., Suneja, A. (2018). Future Research Strategies and Directions. In Recurrent Pregnancy Loss, Ed Mehta S, Gupta B. Pub: Springer Link. April, pg 283-292

Guleria, K., Bhanu, P., Chaudhary, A. (2019). Vaginal Bleeding In Late Trimester. Eds. Alok Sharma in Labour Room Emergencies. First edition

Guleria, K., Sharma, R.. (2019) Breech. Eds Alok Sharma in Labor Room Protocols. first edition Rashmi M. Normal Labour. In: Goel N, Rajaram S, Jain S, Mehta S, Eds.

Postgraduate Manual of Obstetrics & Gynecology for Practical Examination. (2018). Jaypee brothers Medical Publishers, New Delhi, 57-72.

Rajaram, S., Bhanu, P. (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.

Rashmi, M. (2018) Contraception. In: Goel N, Rajaram S, Jain S, Mehta S, Eds. Postgraduate Manual of Obstetrics & Gynecology for Practical Examination. Jaypee brothers Medical Publishers, New Delhi ;353-79.

Rashmi, M. (2018). Evidence based management in recurrent pregnancy loss. In: S Mehta, B Gupta, Eds. Recurrent Pregnancy Loss. Springer, Singapore, 181-96.

### **Research projects**

Kiran Guleria (DBT Govt. Of India 2018-22 , 27.5 Lakhs) “Delhi Air Pollution and Health Effects-M.C Cohort (DAPHNE)”

Amita Suneja (ICMR Govt. of India 2018-2020 48 Lakhs ) “Capacity building through HRRCs and teaching institutes to operationalize government guidelines for screening of common cancers (oral, breast and cervical) – ICMR Task Force study”

### **Conferences Organized**

World Population Day Mobilization fortnight , June-Jul.,2018

World Population Day Stabilization fortnight July 2018

Tubectomy camp Organized by Family Planning, GTB Hospital . July 2018

Guest lecture by Foreign faculty Pat O’Brien for Simms Black Fellowship lecture under the aegis of AOGD & NZ RCOG. August 2018

CME on Fetal Medicine aegis of Society of Fetal Medicine and AOGD, August 2018.

Energy Sources in Surgery: An update” AOGD . Sept. 2019.

AOGD Pre-congress Colposcopy workshop . Nov., 2018.

Recent Updates in Obstetrics & Gynaecology. Dec. 2018

### **Seminar/Conference Presentations**

Alpana Singh presented a paper “Assessment of maternal serum levels of vascular endothelial growth factor and placental growth factor in threatened abortion: a case control study” at All India Congress of Obstetrics & Gynecology. Bengaluru Jan., 2019.

Amita Suneja delivered a lecture on "pattern and Profile of ovarian cancer patients in OPD" during CME on sensitisation and training of health professional at PGIMER, Chandigarh Feb., 2019.

Kiran Guleria presented a paper Effect of Air Pollution on Maternal & Child Health - Is Our Future Generation Safe? – at Global Conference on Reproductive Health with Focus on Occupational, Environmental and Lifestyle Factors & 29th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility (ISSRF), JNU Convention centre, New Delhi. Feb., 2019.

Rashmi presented a paper “Pathophysiology of POP” and “Pessary treatment for Prolapse: in Workshop on “Role of Physiotherapy in Pelvic Floor DYSFUNCTION: Pelvic Organ Prolapse and Urinary Incontinence in Women” organised by Department of Physiotherapy, IPH, Delhi 4th Apr. , 2018.

Shalini Rajaram delivered a guest lecture, Hormone therapy in Gynecological cancers, Indo-American Cancer Centre, Hyderabad 20th Jun., 2018

### **Extension and Outreach Activities**

Cervical Cancer Screening Camp in East Delhi

Faculty delivers Radio talk on AIR

**Faculty Strength: 17**

### **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 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.

Kiran Guleria is a Member of 'National Expert Group Technical consultation on Prevention and treatment of Iron Deficiency Anemia' under MOHFW & GOI Apr., 2018; Invited personality at French Academy of Medicine- FAM Conference on 'Reverse Innovation for Health' Paris, May- June 2018 ;CHAIR- ICMR: GDM sub-committee/working group ICMR for operationalizing GOI guidelines on GDM. ICMR Feb., 2019

Bindiya Gupta is Executive committee member AOGIN India; Member FOGSI oncology committee 2017-19; Web editor ISCCP (Indian society of Colposcopy and cervical pathology) 2018-2020

Sandhya Jain won Mrs Uma Bansal- Prof B.C. Bansal award for best paper in journal 'JIACM' in 2018- Symptom Index for detection of ovarian malignancy in Indian Women- A hospital based observational study XXVI Indian Association Of Clinical Medicine Annual Conference Patiala, Nov. ,2018 ; Gold Medal for best slogan on 'Respectful Maternal Care' AOGD Annual conference Nov. 2018.

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## **OBSTETRICS AND GYNECOLOGY (LHMC)**

### **Major activity and achievements**

Lady Hardinge Medical College is a pioneer institute of India, The Department of Obstetrics and Gynecology is headed by Prof. Abha Singh, Director who is also Chairperson of Medical Education committee of Federation of Obstetricians and gynecologists of India. In the duration, April'18 to March'19 total 26 CMEs /seminars/ workshops including public awareness programs were held. Annual conference of AOGD was successfully organized at India Habitat centre on 24th and 25th November'18 with six Precongress workshops. They were widely appreciated for their academic content. There were total 38 publications in indexed journals by the esteemed faculty, showing that faculty encourages residents to undertake and publish the research work. The faculty was called for more than 166 international and national conferences and meetings to deliver talk on various subjects. Total 4 research projects funded by WHO SEARO, ICMR, DBT, DHR are being carried out. The state of the art National Skill Lab imparts training to the in- service and pre-service doctors and paramedical staff throughout the year. The feather in the cap for the department are approval for obstetric ICU & HDU by MOHFW and establishment of genetic Lab by DBT by the name of NIDAN Kendra.

### **Honours and distinctions**

Dr Abha Singh

President of Association of Obstetrics and Gynecology Delhi (AOGD year 2018-2019).

Felicitated as guest of Honour at Delhi Gynae Endoscopist society & European society for Gynae Endoscopist under AOGD on 17th and 18th August Hotel Le Meridian

Awarded “Inspiring Gynaecologist of North India ,at Economic times Healthworld Fertility Conclave 2018, held on 26.10,2018, at Hotel Claridges, New Delhi

Awarded Icon of Gynecology of India by GYNECON at Moolchand Hospital, Delhi

Delivered Lelawati Ghai Oration at 25th Annual conference of NARCHI, Delhi at Hotel Eros, New Delhi on Maternal and Child Health – GOI Initiative. Feb., 2019.

Dr Minakshi Singh received FICOG Fellowship at AICOG 2019 ,Bangalore. Jan., 2019

Dr Swati Agrawal was awarded “Dr. Kamini Rao Orator” award for North Zone for the year 2018 by Federation of Obstetric & Gynaecological Societies of India (FOGSI) and delivered the prestigious Dr. Kamini Rao oration on the FOGSI theme “We for STREE- Safer. Stronger. Smarter” in North Zone Yuva Fogs Conference, at Radisson Blu, Noida. held on Feb.,2019

Dr Vidhi Choudhary was awarded “Inspiring gynaecologist of north India , Economic times healthworld fertility conclave 2018, at Claridges, New Delhi, Oct., 2018.

### **Publications**

Aggarwal, K., Attri, S., Patra, S., Saha, S. (2018) . Colour Doppler Enhances The Accuracy of Transvaginal Ultrasound For Diagnosing Adenomyosis. *International Journal of Medical Science And Innovative Research*, 3, 173 – 177.

Agrawal, S., Chopra, K., Saxena, P., Singh, B.,& Pimparkar, S. (2018). Chronic abruption in early second trimester mimicking partial mole - A rare case report. *Indian Journal of Case Reports*, 4(1), 22-24.

Agrawal,S., Aggarwal, K., Singh, A.(2019). Twin pregnancy with complete hydatiform mole and coexisting live fetus: A rare case report. *Open Journal of Obstetrics and Gynecology* . 1: 31-34.

Arora, A., Biswas, R., Dubey, B., Goswami, B., & Saxena, S. (2018). Effect of antibiotics on inflammatory marker (IL-6) and perinatal outcomes in women with preterm premature rupture of membranes. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*, 7(10), 4068-4076.

Aakriti Shukla, Pikee Saxena, Amita Yadav (2018) Evaluation of serum Glutathione S Transferase Alpha as a Biomarker of Intrahepatic Cholestasis of Pregnancy. *Journal of The Association of Physicians of India* ; 66: 35-38.

Biswas, R., Chopra, K., Agrawal, S., & Chaudhary, G. (2018). Chronic Abruption Oligohydramnios Sequence at 16 Weeks Pregnancy with Compensated Severe Anemia. *Journal of SAFOG*, 10(1), 63-65. doi: 10.5005/jp-journals-10006-1560.

Bhasin, D., Sharma, R., Chauhan, A. K., Ranjan, R. (2019). Comparative Study between PGE1 Misoprostol and PGE2 Dinoprostone in Preinduction Cervical Ripening. *Annals of International Medical and Dental Research*. 5(2):OG01-OG03.

Blumenthal, P. D., Lerma, K., Bhamrah, R., Singh, S., & Dedicated PPIUD Inserter Working Group. (2018). Comparative safety and efficacy of a dedicated postpartum IUD inserter versus forceps for immediate postpartum IUD insertion: a randomized trial. *Contraception*, 98(3), 215-219.

Bolanthakodi, C., Raghunandan, C., Saili, A., Mondal, S., & Saxena, P. (2018). Prenatal Yoga: Effects on Alleviation of Labor Pain and Birth Outcomes. *The Journal of Alternative And Complementary Medicine*, 24(12), 1181-1188.

Jain, N., Singh, A., Bhattacharjee J.,(2018). Serum homocysteine and folate levels as a predictor of materno-fetal outcome in preeclamptic women. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*.

- Chaudhary, V., Aggarwal, K., & Nangia, A. (2018). Primary ovarian leiomyoma in young woman with premature ovarian failure. *International journal of reproduction and contraception*, 7(10), 4301-4304.
- Prasad, I., Prasad, U., Aggarwal, K., & Trivedi, S. S. (2018). Chromohysteroscopy: role in evaluation of intrauterine cavity lesions in perimenopausal women of AUB. *Indian journal of Applied Research*, 8, 32-35.
- Chopra, K., S., & Lal, P. (2018). Intrauterine foetal demise in pre-eclampsia - role of mifepristone: a case series. *International Journal Of Reproduction, Contraception, Obstetrics And Gynecology*, 7(7), 2952. doi: 10.18203/2320-1770.ijrcog20182914.
- Garg, M., Jain, A., Goswami, B., Puri, M. (2018). Study of Peroxisome Proliferator Activated Receptor  $\gamma$  Pro12Ala Polymorphism in Women with Polycystic Ovary Syndrome. *Indian J Med Biochem*, 22(2), 132-137.
- Kaur, L., Puri, M., Saraswathy, KN., Trivedi, SS., Sachdeva, MK. (2018). Recurrent pregnancy losses vis-à-vis anemia and vitamin (Folate/B12). *International Journal of Health Governance imbalance*.
- Kansara, M., Yadav R. (2019). MultiDose Regimen of Injection Methotrexate for management of Early caesarean scar Ectopic pregnancy-conservative approach. *International Journal of Science and Research*, 8(1), 1947-1950.
- Kumar, M., Singh, S., Sharma, K., Singh, R., Ravi, V., Gupta, U., & Bhattacharjee, J. (2018). Reference centile charts of first-trimester aneuploidy screening & Doppler parameters for Indian population. *The Indian journal of medical research*, 148(4), 427-434.
- Kumar, M., Garg, N., Hasija, A., Pritam, A., Shukla, P., Vanamail, P., & Roy Choudhury, S. (2018). Two-year postnatal outcome of 263 cases of fetal ventriculomegaly. *The Journal of Maternal-Fetal & Neonatal Medicine*, 1-7.
- Kumar, M. (2018). Ultrasonography and autopsy correlation of fetal hypoplastic left heart syndrome. *Journal of Clinical Ultrasound*, 46(7), 480-482.
- Kumar, M., Jha, V., & Singh, A. (2018). Nonimmune Hydrops Fetalis: Factors Which Predict Outcome. *The Journal of Obstetrics and Gynecology of India*, 68(3), 197-203.
- Kumar, M., Gupta, A., Kumar, V., Handa, A., Balliyan, M., Meena, J., & Roychoudhary, S. (2018). Management of CHAOS by intact cord resuscitation: case report and literature review. *The Journal of Maternal-Fetal & Neonatal Medicine*, 1-7.
- Lal, P., Singh, A., (2018). A retrospective analysis on acceptability & Complications of PPIUCD. *Int J Reprod. Contraception. Obstetrics & Gynecology*, 7 (11), 4536-4539.
- Lal, P., Pandey, N., & Singh, A. (2018). A retrospective analysis on acceptability and complications of PPIUCD insertion. *International Journal Of Reproduction, Contraception, Obstetrics And Gynecology*, 7(11), 4536. doi: 10.18203/2320-1770.ijrcog20184503.
- Mishra, J., Puri, M., Sachdeva, MP., Kaur, L., Kallur, KN. (2018). Hyperhomocysteinemia and folate deficiency in preterm premature rupture of membranes: A hospital-based case control study. *Womens' Health, Issues Care*, 2325-9795.
- Mishra J, Puri M, Saraswathy KN. (2018). MTHFR C677T gene polymorphism is not associated with preterm premature rupture of membranes in North Indian women. *Gene Reports*, 13, 24-27.
- Mishra, J., Kaur, L., Yadav, S., Puri, M., Sachdeva, MP., Saraswathy, KN. (2019). MTHFR gene specific methylation and global methylation patterns in normal pregnancy. A pilot study (India). *Meta Gene* 19, 203-206.
- Mishra, A., Arya, P., & Saxena, P. (2018). Diabetes in pregnancy: long term effects on offspring begins in utero. *European Journal of Pharmaceutical and Medical Research (EJPMR)*, 5(1), 373-374.

Manisha, K., & Asmita, B. H. (2018). Physicians' knowledge and patients' understanding of informed consent: challenges in clinical practice.

Nayar, S., Keshkar, M., Arya, A., Puri, M. (2018). Gestational Gigantomastia: A Rare Case. *JSM Clinical Case Reports*, 6(4), 1157.

Prasad, I., Trivedi S. S., & Aggarwal, K. (2017). Endometrial disease is ruled out by a homogeneously light stained endometrium on chromohysteroscopy. *Global journal for research analysis*, 16(2).

Pikee Saxena, Raksha Soni, V. S. Randhawa, Nain Singh. (2018). Can Seminal IL-8 Level Be Used as a Marker of Leukocytospermia and Does It Have Any Correlation with Semen Parameters in Infertile Couples. *The Journal of Obstetrics and Gynecology of India* <https://doi.org/10.1007/s13224-018-1188-3>.

Praveena, S., Asha, G., Sunita, M., Anju, J., & Ratna, B. (2018). Yoga offers cardiovascular protection in early postmenopausal women. *International Journal of Yoga*, 11(1), 37-43.

Pratibha, P., Rathi, S., Tomar, S., Singh, M., Ranjan, R., & Sharma, R. (2018). Primary Postpartum Haemorrhage – Morbidity And Mortality. *Annals Of International Medical And Dental Research*, 4(4). doi: 10.21276/aimdr.2018.4.4.og2

Singh, A., & Kumar, M. (2019). An Analysis of Cause of Stillbirth in a Tertiary Care Hospital of Delhi: A Contribution to the WHO SEARO Project. *The Journal of Obstetrics and Gynecology of India*, 69(2), 155-160.

Saraswathy, KN., Kaur, L., Talwar, S., Mishra, J., Huidrom, S., Sachdeva, MP., Puri, M. (2018). Methylenetetrahydrofolatereductase Gene specific methylation and recurrent miscarriages: A case control study from north India.

Saini, R., Yadav, R., & Pathak, B. Use of cervical length, measured by transvaginal sonography at 22 to 26 weeks, as a predictor of preterm labour in twin pregnancy. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*, 7(9), 3591.

Sinha M Praveena, Gandhi Asha, Mondal Sunita, Jain Anju, 1 and Biswas Ratna (2018). Yoga Offers Cardiovascular Protection in Early Postmenopausal Women. *Int J Yoga*. Jan-Apr; 11(1): 37–43.

Saxena, P., Soni, R., Randhawa, V. S., & 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? *The Journal of Obstetrics and Gynecology of India*, 1-6.

Shukla, A., Saxena, P., & Yadav, A. (2018). Evaluation of serum Glutathione-S Transferase-Alpha as a Biomarker of Intrahepatic Cholestasis of Pregnancy. *Journal of The Association of Physicians of India*, 66, 35-38.

Singh, M., Ranjan, R., Meenakshi, Pal, R., Das, J., & Gupta, S. (2018). Epidemiology of violence against medical practitioners in a developing country (2006-2017). *Journal of Health Research and Reviews*, 5(3), 153. doi: 10.4103/jhrr.jhrr\_84\_17.

Yadav, R., & Srivastava, A. (2019). Intractable Dysmenorrhea in Adolescent: A Series of Two Cases of Laparoscopic Rudimentary Horn Excision. *Journal of Case Reports*, 9(1), 15-18.

### **Books/ Chapters contributed**

Agarwal Kavita, Saxena, P. Placenta in diabetic Pregnancy. In: Pikee Saxena, Alka Pandey, Anupam Prakash (Eds). (2018). Clinical guidelines for management of diabetes in pregnancy. 1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers; 2018, p 149-153.

Mishra, A., Saxena, P. Fetal monitoring in pregnancy with diabetes. In: Pikee Saxena, Alka Pandey, Anupam Prakash (Eds). (2018). Clinical guidelines for management of diabetes in pregnancy. 1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers; 2018, p 135-142.

Nain, S. Contributed to the book “Comprehensive guide to CMS- Prasad Combined Medical Services-5th Edition 2018

Nigam, A., Saxena, P. Bariatric Surgery and gestational diabetes: Implications. In: Pikee Saxena, Alka Pandey, Anupam Prakash (Eds).. Clinical guidelines for management of diabetes in pregnancy. 1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers; 2018.p 192-200.

Puri, M. Contributed a chapter on Maternal Nutrition Therapy: A sheet anchor in Management of GDM in the book entitled Clinical Guide in the management of Diabetes in Pregnancy Edition 2018 Pikee Saxena Alka Pandey Anupam Prakash Jaypee Brothers Medical Publishers Delhi

Puri, M. Contributed two chapters in 10th Edition of World Clinics in Obstetrics & Gynaecology on Anaemia in Pregnancy entitled Overview of anaemia, Chronic anaemia

Pikee Saxena, Alka Pandey, Anupam Prakash (Eds). (2017). Clinical guidelines for management of diabetes in pregnancy. 1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers

Saxena, P., Nigam, A. Screening and diagnosis of hyperglycemia in pregnancy. Challenges and controversies. In: Pikee Saxena, Alka Pandey, Anupam Prakash (Eds). (2018). Clinical guidelines for management of diabetes in pregnancy.1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers; 2018. p.32-41.

Saxena, P., Gupta, R. Physical activity for patients with diabetes in pregnancy. In: Pikee Saxena, Alka Pandey, Anupam Prakash (Eds). (2018). Clinical guidelines for management of diabetes in pregnancy.1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers; 2018.p 66-73.

Singh, A. contributed a chapter in Antepartum Hamorrhage in the book Essentials of Obstetrics. Editors Poonam Sachdeva and Swaraj Batra. Theime publications

Saxena, P., Singh, A., Soni, R. Contributed a chapter -Challenges in the management of macrosomia in diabetic pregnancy. In Clinical guidelines for management of diabetes in pregnancy.1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers; 2018.p 128-134.: editors Pikee Saxena, Alka Pandey, Anupam Prakash (Eds). (2018).

Saxena, P., Gupta, P. Postpartum management after GDM. In: Pikee Saxena, Alka Pandey, Anupam Prakash (Eds). Clinical guidelines for management of diabetes in pregnancy.1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers; 2018.p 162-168.

Saxena, P., Gaur, J. Benefits of breastfeeding in mothers with gestational diabetes. In: Pikee Saxena, Alka Pandey, Anupam Prakash (Eds). Clinical guidelines for management of diabetes in pregnancy. 1st Edition. New Delhi: FOGSI Publication, Jaypee Publishers; 2018.p 169-176.

Saxena, P., Goel, N., Rajaram, S. Specimens In: Practical manual of Obstetrics & Gynecology for Postgraduate. New Delhi. Jaypee Publishers. 2018 In print.

Singh, A., Chapter on IUGR in book on Labour Room Emergencies-by by Alok Sharma 11 Nov 2018 ISBN 978-981-10-4953-8

## **Journals**

Published by the department - AOGD monthly bulletin was published by the department

Editors: Dr Ratna Biswas, co- editors: Dr. Pikee Saxena, Dr. Swati Agrawal

## **Research Projects**

Dr. Abha Singh, Dr. Jayshree Bhattacharjee, Dr. Shalini Singh, Dr. Manisha Kumar (DHR – ICMR under GIA scheme Rs. 56,00,000) Study of serial change in placental profile and its role in prediction of hypertension in pregnancy.



Dr. Abha Singh, Dr. Pikee Saxena National Skills Lab, LHMC MOHFW Amount for salaries to trainers sent from ministry.

Dr. Manisha Kumar, Dr Abha Singh (ICMR taskforce project Rs. 30,000) Respectful Maternal care.

Dr. Jayshree Bhattacharjee, Dr. Pikee Saxena (ICMR Rs. 34,06,669) 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.

### **Seminars Organized**

CME on preeclampsia, SJ Auditorium LHMC May, 2018

Infertility Update, Infertility Committee, FOGSI, June, 2018

CME on liver disease in pregnancy July, 2018

### **Conferences/Symposia/Seminars/Workshops/CMEs**

Organized a workshop on Knotting and Suturing skills for students and residents at LHMC on Feb., 2018.

Post conference workshop Medicus Coventus 2018 on Suturing and Knotting June , 2018

Workshop on PPH for nursing officers as a part of CNE at Swaran Jayanti Auditorium LHMC, Aug., 2018.

Workshop on Quality Improvement for nursing professionals for successful implementation of LaQshya Nov., 2018.

Preconference workshop on “Ovulation Induction and IUI “in the 40th Annual Conference AOGD at Swaran Jayanti Auditorium LHMC, Nov., 2018.

Public awareness program in Gynae OPD on PPTCT Nov 2018.

CME on Prevention of parent to child transmission of HIV. Dec., 2018

You are what your mother ate: An insight into intrauterine Programming” in CME on GDM at LHMC, New Delhi Nov., 2018.

Public awareness program on Diabetes in Pregnancy at LHMC, Nov., 2018.

Public forum on Contraception on occasion of World population day, GOPD and a CME cum Hands on workshop in the Medical education hall, SJ Auditorium, Lady Hardinge Medical College ,Jul., 2018.

Public awareness program & Quiz on “Permanent methods of Contraception” on the occasion of World Vasectomy Fortnight at Gynae OPD, LHMC & SSK Hospital, New Delhi. conducted Nov., 2018.

Webinar & live streaming of one hour program from 9.15 am to 10.15 am on “Peripartum Hysterectomy & Pelvic Organ Prolapse” to Medical colleges all over India, March 2019.

### **Seminars/Conferences Presentations (National/International) (selected)**

Abha Singh presented Paper on Maternal near miss in a tertiary hospital. As International faculty at workshop in live station demonstrated “Oxygen therapy and non invasive ventilator”. FIGO , 22nd World Congress in Gynaecology and Obstetrics Rio De Janeiro, Brazil, Oct., 2018.

Manju Puri delivered a talk on Hyperglycaemia in pregnancy Diet and Medical management in a CME on maternal fetal medicine at AIIMS Delhi. May, 2018.

Manisha Kumar presented research paper on “Outcome of fetal ventriculomegaly: A ten year data. FIGO , 22nd World Congress in Gynaecology and Obstetrics Rio De Janeiro, Brazil .Oct .,2018.

Reena speaker Interpretation of LFT AOGD , LHMC CME on Liver disease in pregnancy: Evidence based update –LHMC,- Jul., 2018

Vidhi Choudhary speaker :Destructive operations have place in modern obstetrics Annual conference of AOGD, LHMC, Nov., 2018.

#### **Other inter - institutional collaborations**

National Skill Lab provides training for labor room and obstetric skills to participants from various institutions

**Faculty strength:** Twenty Two

#### **Other Significant information**

Manisha Kumar received Rajat Ray award (2nd runners up ) for best research paper in fetal medicine by FOGSI for year 2018.

Sonali Jain, Ratna Biswas, Ritu Singh Winner of 3rd Prize in competition paper titled “Association of Placental growth factor with severity of preeclampsia and adverse foeto-maternal outcome category” at 40th Annual Conference of AOGD , India Habitat Centre ,Delhi . Nov., 2018

Sharda Patra Received Corion award (1st runners up ) for best research paper in Obstetrics and Gynecology by FOGSI for year 2018.

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### **ORTHOPAEDICS (MAMC)**

#### **Major Activities and Achievements**

The department of Orthopaedics, Maulana Azad Medical College has continued to publish numerous articles of a high academic standard and these have 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 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.

#### **Honours /Distinctions**

Dr.Lalit Maini received Rotary Vocational Award 2018, for outstanding innovation in healthcare; India International Center June 2018.

Patent Filed: Bending of Orthopaedic Plates, Indian Application No201711038563, Applicant: IIT Delhi, Inventors: Dr.SunilJha and Dr.LalitMaini

#### **Publications**

Bhatnagar N, Sharma S, Lingaiah P, Jaikumar K, Tiwari A. (2018). Ununited Fracture Medial Condyle in a Child: A Case Report and Review of Literature. *J Orthopaedics Case Reports*. 8(2):65-68.

Bhatnagar N, Sharma S, Gautam VK, Kumar A, Tiwari A. (2018). Characteristics, management, and outcomes of spontaneous osteonecrosis of the knee in Indian population. *Int Orthopaedics*. 42(7):1499-1508.

- Gautam VK, Kumar A, Agarwal M, Saini R, Sharma S, Sabat D. (2018). Comparative evaluation of peri articular infiltration of two cocktail regimens for analgesia in post-operative patients of Total Knee Replacement. *J Arthroscopy Joint surgery*. <https://doi.org/10.1016/j.jajs.2018.11.001>
- Harna B, Sabat D. (2018). A Rare Case of Complex Carpal Injury: Divergent Trapezium-Trapezoid Fracture Dislocation. *J Hand Microsurgery*.10(3):150-154
- Harna B, Dutt Dwivedi D, Pippal HK, SabatD. (2018). Bicondylar conjoint Hoffa's fracture with patella entrapped in the fracture: A rare case report. *J Clin Orthopaedics Trauma*. 9(Suppl 2):S35-S38.
- Harna B, Sabat D. (2018). Innovative uses of syringes in orthopedics. *Int J Current Res*,10(3):66421.
- Kashyap A, Kadur S, Mishra A, Agarwal G, Meena A, Maini L. (2018). Cervical pedicle screw guiding jig, an innovative solution. *J Clin Orthopaedics Trauma*. 9(3):226-229.
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- Lalit M, Ankur S, Anshul G, Amit S, Surabhi R. (2018). Evaluation of Knee Kinematics in Single Radius versus Multi-Radii Total Knee Arthroplasty in India Population: A Randomized Control Trial. *J Biomed Engineering Biosc* 1(3):1-8.
- Lingaiah P, Jaykumar K, Sural S, Dhal A. (2018). Functional evaluation of early tendon transfer for foot drop. *J Orthopaedic Surg* 26(3):2309499018799766.
- Maini L. (2018). 3D Printing, a new tool in Orthopaedic Surgery. *J Bone & Joint Dis*.33(3): 2-4.
- Maini L, Vaishya R, Lal H. (2018). Will 3D printing take away surgical planning from doctors? *J Clin Orthopaedics Trauma*. 9(3):193.
- Maini L, Verma T, Sharma A, Sharma A, Mishra A, Jha S. (2018). Evaluation of accuracy of virtual surgical planning for patient-specific pre-contoured plate in acetabular fracture fixation. *Arch Orthopaedic Trauma Surg*. 138(4):495-504.
- Maini L, Mishra A, Agarwal G, Verma T, Sharma A, Tyagi A. (2018). 3D printing in designing of anatomical posterior column plate. *J Clin Orthopaedics Trauma*. 9(3):236-240.
- Pushpasekaran N, Gupta D, Kashyap A, Arora S, Gupta AK. (2018). Concomitant methicillin-resistant Staphylococcus aureus infection in tubercular sacroiliitis masquerading as anti-tubercular drug resistance: Role for molecular diagnosis. *Indian J Tuberculosis*. 65(4):350-355. doi: 10.1016/j.ijtb.2018.05.022.
- Sharma A, Lodhi JS, Lingaiah P, Kumar A, Arora S. (2018). An unusual presentation of haemophilia A: pseudotumor of distal end of radius- masquerading as giant cell tumor. *J Hand Microsurgery*. 2018;1.
- Tiwari A, Karkhur Y, Maini L. (2018). Total hip replacement in tuberculosis of hip: A systematic review. *J Clin Orthopaedics Trauma*. 9(1):54-57.
- Tiwari V, Karkhur Y, Das A. (2018). Concomitant Posterolateral Elbow Dislocation with Ipsilateral Comminuted Intra-articular Distal Radius Fracture: A Rare Orthopaedic Scenario. *Cureus*. 3;10(3):e2264.
- Tiwari A, Mohindra M, Thora A, Sural S, Dhal A.(2018). Anterior Reconstruction of Spine by posterior approach in cases of unstable thoracolumbar burst fractures. *Int J Res Orthopaedics* 4, (3):2018.
- Vivek Bansal, Abhishek Mishra, Tarun Verma, Dhruv Maini, Yugal Karkhur, L. Maini. (2018). Anthropometric assessment of tibial resection surface morphology in total knee arthroplasty for tibial component design in Indian population. *J Arthroscopy Joint Surg* 5(1): 24-28.

Vaishya R, Maini L, Vaish A. (2018). Making the Surgeons Safe in India. *Indian J Orthopaedics*. 2(2):212-213.

Verma T, Mishra A, Agarwal G, Maini L. (2018). Application of three dimensional printing in surgery for cam type of femoro-acetabular impingement. *J Clin Orthopaedics Trauma*. 9(3):241-246.

Vaishya R, Maini L, Lal H. (2018). A journey of the Journal of Clinical Orthopaedics and Trauma. *J Clin Orthopaedics Trauma*. 9(4):277-280.

Verma T, Mishra A, Agarwal G, Maini L. (2018). Three dimensional surgical planning for mosaicplasty in chondroblastoma of femoral head with articular disruption. *J Orthopaedic Sci.* pii: S0949-2658(18)30300-2.

### **Journals**

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board: 2

Dr. Lalit Maini: Executive Editor- Journal of Clinical Orthopaedics and Trauma ; Executive Editor – Journal of Arthroscopy & Joint Surgery (Elsevier); Section Editor – MAMC Journal of Medical Sciences (Medknow); Corresponding Editor Asian Archives of Anaesthesiology & Resuscitation; Editor Indian Journal of Orthopaedics.

### **Conferences Organized**

MAMC Knee & Shoulder Cadaveric Workshop, Dec., 2018.

20th MAMC PG Course ,Dec., 2018

### **Seminars, Conferences Presentations (National / International)**

Abhishek Kashyap: 3D printing in spine. ICS (annual meeting ASSI), Amritsar. June ,2018.

Lalit Maini: Overview on scientific Paper writing. DOA 2nd Paper writing workshop. Jan'18

Sumit Sural: Lecture 'Imaging in Disc Disease' at Delhi Orthopaedic Association Musculo skeletal Imaging CME, Aug., 2018.

Tarun Suri: Faculty talk "Developmental Lumbar Canal Stenosis : A hidden monster" in DOACON 2018 held at AIIMS Delhi , Nov., 2018.

Vinod Kumar delivered a lecture on "Endoscopic Interlaminar Approach: Surgical Anatomy" at 11th MISS Update 2018 (live operative and Cadaveric workshop), held in Trinity Hospital and GMC & H, Chandigarh. May ,2018,

### **Inter-institutional collaboration**

With IGNOU for Post graduate Diploma course in Geriatric Medicine.

BPO course for Orthotics and Prosthetics at PDDUIPH, Delhi University;

### **Faculty strength - 14**

### **Other significant Information**

Sumit Sural

Appointed by the Ministry of Health and Family Welfare, Government of India as Faculty for "Training of Trainers" programme on Occupational and Environmental Health for Medical Officers conducted at NIHFWS from (3rd- 8th Dec, 2018 & 25th Feb- 2<sup>nd</sup> March, 2019); Member Expert Bodies :Member, Institutional Ethical Committee, MAMC; Expert member Executive committee and Disciplinary Committee of Delhi Medical Council.

Appointed Assessor for accreditation of DNB Orthopaedics courses at NBE institutions.

Medico-legal cases of Lok Nayak Hospital, attended the courts for MACT cases.

Lalit Maini External Expert for Faculty selection and promotion JIPMER October 2018;

Chairman ISKSAA (International Society for knowledge for surgeons on Arthroscopy and Arthroplasty)

V K Gautam Appointed by MCI as member of Committee to grant UG accreditations on 11<sup>th</sup> Deember2018; Appointed assessor for accreditation of Bone banking facilities at R &R Hospital New Delhi by Delhi organ transplant Cell; Appointed member selection Committee for the post of Professor of Orthopaedics at BHU on 23rd Jan, 2019; Appointed member of the Delhi state level committee, by Drug controller Dept Govt of NCT to assess the quantum of penalty to be imposed on faulty ASR hip implants by J&J. in Dec 2018; Appointed Chairperson MAMC level committee for approval of DM, M.Ch students of GIPMER New Delhi in the subject of Cardiology, Gastroenterology & Cardiac Anesthesia 10th Jan, 2019.; Appointed Assessor by MCI for increase of PG seats at RNT Medical College Udaipur. Conducted on 10th Dec,2018; Appointed MCI assessor for increase in PG seats at TirthankarMahavair Medical College Moradabad on 30.7.2018.; Invited as a member J&K Public Service commission for selection to the post of Assistant Professors in various medical Colleges of the state on 12 and 13 Nov,2018 ; Member standing selection committee for the selection of Prof of Orthopaedics at PGIMER Chandigarh on 29.10.2018; DNB (Ortho) assessor at Sparsh Hospital Bangalore on in Oct 2018; DNB Ortho Assessor at District Hospital Palakkad on 14th Jan, 2019; Appointed member of Senate at BFUHS by VC; Appointed member selection committee for post of Prof Orthopaedics at PGIMER Chandigarh, April 2018.

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## OPHTHALMOLOGY (LHMC)

### Major Activities and Achievements

Renovation of Eye & ENT OT and starting Eye OT 6 day/week. Started Eye OT in KSCH on Monday and Friday. Started dedicated eye donation mobile number, organized poster competition for UGs on Eye-Banking. Department took active part in Health Technology Assessment of IOL for Age Related cataract in India and its discussion which reached to a very appropriate costing of IOL Cataract Surgery in India. Faculty and residents took active part in the sessions in conferences DOS and AIOS, INOS. Neuro-Ophthalmology basics at India Habitat Centre on 30/08/2018. Glaucoma prevention week (10-16 March 2019) celebrated in the department. Report to the same sent to the DGHS.

Dr. Sarita Beri, Director Professor & Head won 1<sup>st</sup> prize in Slogan writing competition held by LHMC in 2018. MCI Assessment and clearance of 2 permitted seats to MCI recognized PG seats. Started assessment of PG every year including practicals for the final year teaching.

### Honours / Distinctions

Dr Zia Chaudhuri was awarded the degree of PhD in Genetics on her original work on “Genetic Analysis of Strabismus” at the Department of Genetics, University of Delhi at the convocation held on November 2018.

### Publications

Arora NK, Nair MKC, Gulati S, Deshmukh V, Mohapatra A, Mishra D, (2018). Neuro-developmental disorders in children aged 2-9 years: Population-based burden estimates across five regions in India. *PLoS Med.* 24;15(7):e1002615.

Madan S, Chaudhuri Z. (2018). Cerebral venous thrombosis with auto-immune hyperthyroidism. *Indian J Ophthalmol.*; 66(11):1649-1651.

Madan S, Chaudhuri Z. Amniotic Band Syndrome; A review of 2 cases. (2018). *Ophthalmic Plast Reconstr Surg*, 34(4):e110-e113.

Ramavat P., Vashist s. et al (2018). Glaucoma Awareness Among Medical Students of a Medical College in North India. *JEBMH*; 5:1287-91

### **Journals**

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board: 1

Dr. Zia Chaudhuri: BMC Ophthalmology [Associate Editor]; Strabismus & Indian J Ophthalmology [Editorial Board]; Ophthalmology and Therapy [Editorial Advisory Council]

### **Seminars Organized**

Dr. Sarita Beri, Dr. Piyush Kumar R. Ramavat organized Eye Donation Awareness for Nursing Staff seminar hall Ophthalmology 29th Aug 2018

### **Seminar / Conference Presentations**

Dr.Om Prakash: E-Poster presentation titled “Partial Acquired Post Traumatic Ankyloblepharon” at DOS Winter Conference at India Habitat Centre, Delhi. Nov., 2018.

Dr. Piyush Kumar: Speaker “Practical approach in Glaucoma suspect” ; Oral Presentation “Importance of Indirect Ophthalmology in Von Hippel Lindau Disease” ; Instructor “Wet Lab Phaco” at All India ESIC Ophthalmology Conference, ESIC Medical College & Hospital Faridabad, Oct., 2018

Dr. Zia Chaudhuri

Presented three talks entitled “Process of Scientific Publication”, “Writing an impactful research article” and “Writing a research protocol” at the 3rd National Symposium Workshop on Medical Writing and Clinical Research at Yercaud, Salem, Tamil Nadu, Aug., 2018.

“Speed of reading in normal and amblyopic eyes in children and adults”, “Visual functions in Alzheimer’s dementia” Oral presentation & “Management of periocular infantile hemangioma with oral propranolol: A case series” & “Speed of reading in acquired cerebral visual impairment” Physical poster presentation at the 77<sup>th</sup> All India Ophthalmological Society Conference at Indore, Feb., 2019.

**Extension and Outreach activities:** Kalayan Puri Dispensary OPD

**Number of Degrees Awarded- M.S.:** 04

**Faculty Strength:** 06

### **Other Significant Information**

Dr. Piyush Kumar R. Ramavat received training Department of informatics University of OSLO, Norway; 2nd short course on Public health Informatics PGIMR Chandigarh 29<sup>th</sup> Oct- 2<sup>nd</sup> Nov 2018.

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## **OPHTHALMOLOGY (UCMS)**

### **Publications**

Das GK, Sahu PK, Kumar S, Biakthangi LVL. (2018). Efficacy of Phacotrabeculectomy Alone versus Phacotrabeculectomy Augmented with Autologous Anterior Capsule Implantation Beneath the Sclera Flap. *Semin Ophthalmol.*;33(2):143-148.

Gopal K. Das, Pramod K. Sahu, Laura V. L. Biakthangi, Divya Jain. (2018). Evaluation of intravitreal bevacizumab as monotherapy and in combination with macular grid laser photocoagulation in diffuse diabetic macular edema. *Oman J Ophthalmol*; 11(3): 248–253.

Gupta, Ved Prakash, Isha Chaudhari. (2018).. Palmoplantar Keratoderma with Keratoconus *Middle East Afr J Ophthalmol*; 25(1): 49–51.

Sahu, Pramod Kumar, Gopal Krishna Das, Nitish Kumar. (2018). Oculo-cerebro-renal syndrome of lowe with ectropion uvea. *British J Ophthalmol*; 44(2):

**Faculty Strength: 3**

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### OTORHINOLARYNGOLOGY (ENT) (LHMC)

#### Major Activities and Achievements

The department organized many workshops .

#### Publications

Anamika A, Chakravarti A, Kumar R (2019) Atopy and Quality of Life in Pediatric Chronic Rhinosinusitis. *Am J Rhinol Allergy*. doi: 10.1177/1945892419854266.

Anamika Anamika, Arunabha Chakravarti, Raj Kumar (2018) Clinical profile, aeroallergen sensitivity and assessment of pulmonary function in pediatric chronic rhinosinusitis. *Clin Translational Allergy*, 8(Suppl 2):D24

Arora R, Kumar S, Singh GB. (2018). Predictors of nature of ingested foreign bodies in children& assessment of operative outcomes. *Int J Paediat Otorhinolaryngology*; 113:150-155.

Arora NK, Nair MKC, Gulati S, Deshmukh V, Mohapatra A, Mishra D, et al (2018)Neurodevelopmental disorders in children aged 2-9 years. Population-based burden estimates across five regions in India. doi: 10.1371/journal.pmed.1002615. eCollection

Kwatra D, Kumar S, Singh GB, Biswas R, Upadhyay P. (2019). Effect of gestational diabetes mellitus on hearing. *Int. J ORL-Head Neck Surg*. In print

Poonam Sagar, Ishwar Singh, Pragya Rajpurohit, Shramana Mandal (2019) Inverted papilloma presenting as unilateral proptosis: A case report with review of literature. <https://doi.org/10.1016/j.sjopt.2019.01.008> (in press)

Nayak A, Kumar S, Arora R, Singh GB. (2018). Image analysis of interarytenoid area to detect cases of Laryngopharyngeal Reflux: An objective method. *Am J Otolaryngol*.;39(2): 171-174.

Singh GB, Solo M, Rana N, Kumar S. (2019) Evaluation of type III tympanoplasty using cartilage ossiculoplasty in cholesteatoma ear surgery. *Ear, Nose &Throat J*; doi: 10.1177/0145561319840546

Shankar M, Agarwal K, Kumar S, Singh S. (2018) Expression of epithelial mesenchymal transition markers at invasive tumors front in primary head and neck squamous cell carcinoma. *Int J Sci Res*. 7 (11):4-7.

Sudhagar E, Kumar S, Kumar Poornima. (2018) A rare case of primary tuberculous otitis media with Bezold's abscess. *Indian J Otolaryngol Head Neck Surg*. doi.org/10.1007/s12070-018-1554-6

V, Gupta N, Roy AK, Kwatra D (2019). A rare case of congenital laryngeal cyst and its surgical management. *Int J Otorhinolaryngol Head Neck Surg* doi.org/10.18203/issn. 24545929. ijohns

Singh GB, Solo M, Rana N, Kumar S. (2019) Evaluation of type III tympanoplasty using cartilage ossiculoplasty in cholesteatoma ear surgery. *ENT J*. Apr 11:145561319840546.

Sharma S, Agarwal S, Jain M, Singh GB, Andley M. (2018) Cytomorphological Differences between Liquid-Based Cytology and Conventional Smears in Fine-Needle Aspirates of Thyroid Lesions. *J Cytol.* 35(4):208-211.

Singh GB, Solo M, Kaur R, Arora R, Kumar S. (2018) Mycology of chronic suppurative otitis media-cholesteatoma disease: An evaluative study. *Am J Otolaryngol.* 39(2):157-161

Singh GB, Shukla S, Kumari P, Shukla I. (2018) A rare case of extra-nasopharyngeal angiofibroma of the septum in a female child. *J Laryngol Otol.*:132(2): 184-187.

Saini V, Gupta N, Roy AK, Kwatra D (2019). A rare case of congenital laryngeal cyst and its surgical management. *Int J Otorhinolaryngol Head neck Surg.*doi.org/10.18203/9 Issn.2454-5929.ijohns2019xxxx

Sagar P, Rajpurohit P, Singh I, Mandal S . (2019) Giant De Novo Pleomorphic Adenoma of Para pharyngeal Space, Can It Cause Spinal Deformity? A Case Report. *Spine Deformity* : 7(3):505-508

### **Conferences Organized –**

1<sup>st</sup> Cadaveric FESS workshop, March 2019.

1<sup>st</sup> Temporal bone Workshop, November, 2018.

41<sup>st</sup> Annual Conference of the Association of Otolaryngologists of India, Delhi Branch, LHMC, New Delhi, March, 2019.

### **Other Inter-Institutional Collaboration**

Two workshops organized in collaboration with All India Institute of Medical Sciences.

### **Faculty Strength 3**

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## **OTOLARYNGOLOGY (MAMC)**

### **Honours /Distinctions**

Dr J C Passey, gave an oration at Annual Conference of AOI Rajasthan, Punjab, UP.

Dr H.C. Taneja, Elected President of Delhi chapter of Association of otolaryngology of India.

Dr. Ishwar Singh, Faculty at International Conference on Larynx and Hypopharynx, 20 to 22 Dec 2018, UCMS and U Chicago center at New Delhi.

### **Publications**

Agarwal R, Singh M, Sharma S, Jaiswal A, Jain SL, Khurana N, Meher R.(2018) Utility of fine needle aspiration cytology to diagnose intraoral tuberculosis and other oral granulomatous lesions. *Diagn Cytopathol.*doi: 10.1002/dc.24059.

Arora N, Juneja R, Meher R. (2018) Complication of an Odontogenic Infection to an Orbital Abscess: The Role of a Medical Fraudster ("Quack"). *Iran J Otorhinolaryngol*, 30(98):181-184.

Dhingra, Shruti (2018), The Nasal Dermoid.Clinical presentations and management. *International Journal of Scientific Research.* 6. 319.

Dhingra, S, Zaffar SA. (2018). Sonographic assessment of cervical lymphadenopathy: role of high resolution and color doppler ultrasound. *International Journal of Scientific Research.* 6. 640.

Gupta D, Dhandapani S, Singh I, Passey JC. (2018) Branchiootitic Syndrome – Rare Case Reports of Patients with Complete Bilateral Branchial Fistulae. *ear* 4(1): 44-47



Jain A, Saxena A, Meher R, Khurana N. (2018) Synovial sarcoma of the ethmoid sinus. *Eur Ann Otorhinolaryngol Head Neck Dis*, 135(6): 453-455.

A, Singh I, Meher R, Raj A, Rajpurohit P, Prasad P.(2018) Deep neck space abscesses in children below 5 years of age and their complications. *Int J Pediatr Otorhinolaryngol*, 109:40-43.

Raychaudhuri S, Agarwal C, Gole S, Dhingra S (2018). Basaloid squamous cell carcinoma of tonsil:an unusual and aggressive variant. *International Journal of Surgical Oncology*.10.1

Rani P, Singh M, Mehrol C, Gupta AJ, Khurana N, Meher R. (2018) Dedifferentiation of oncocytic epithelial-myoeplithelial carcinoma to mucoepidermoid carcinoma in parotid gland: A rare case report. *Indian J Pathol Microbiol*, 61(4):564-566.

Singh K, Pujani M, Agarwal V, Dhingra S. (2018). Encapsulated Follicular Variant of Papillary Thyroid Carcinoma arising in a Follicular Adenoma:A Diagnostic Dilemma. *Indian Journal of Surgical Oncology*.9.10

### **Seminars/Conferences organized**

International Conference on Cancer of Larynx and Hypopharynx in collaboration with world renowned University of Chicago at New Delhi , Dec.,2018.

### **Seminars/Conferences Presentations**

Ishwar Singh delivered a talk on Radical Neck Dissection at NOIDA super specialty centre

Ravi Meher faculty at Medical Education workshops at MAMC 2017-18

**Faculty Strength: 7**

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## **OTORHINOLARYNGOLOGY (UCMS)**

### **Publications**

Dar SA, Rai G, Ansari MA, Akhter N, Gupta N, Sharma S et al. (2018). FcεR1α gene polymorphism shows association with high IgE and anti-FcεR1α in Chronic Rhinosinusitis with Nasal Polyposis. *J Cell Biochem*; 119(5):4142-4149.

Gogia V , Vaid L, Singh P P, Saha R. (2018). Evidence of Bacterial Biofilm in Chronic Rhinosinusitis: Factors affecting and the impact on prognosis. *Int J Otorhinolaryngol Head Neck Surg*, Nov ;4(6):1405-1410.

Rai G, Das S, Ansari MA, Singh PK, Gupta N, Sharma S, Akhter N, Ramachandran VG, Haque S, Dar SA. (2018). Phenotypic and functional profile of Th17 and Treg cells in allergic fungal sinusitis. *Int Immunopharmacol*. 30; 57:55-61.

Rai G, Ansari MA, Dar SA, Datt S, Gupta N, Sharma S, et al (2018). Serum Cytokine Profile in Patients with Chronic Rhinosinusitis with Nasal Polyposis Infected by *Aspergillus flavus*. *Ann Lab Med*. 1; 38(2):125-31.

### **Conferences Organized**

International conference on cancer of larynx and hypopharynx, ChicagoCenter, New Delhi Dec., 2018.

Head and neck cadaver dissection, Thyroplasty and airway reconstruction; post laryngectomy rehabilitation and tracheoesophageal puncture; hands on trans oral laser microsurgery workshop (TOLMS) at UCMS, Delhi Dec., 2018.

## Seminar/Conference Presentations

Dr. Neelima Gupta presented paper at the 11<sup>th</sup> International symposium on Recent Advances in Rhinosinusitis and Nasal polyposis, ISRNP, Bangalore, Nov., 2018. The paper was adjudged the second best paper in the Senior Consultant Award category.

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## PATHOLOGY (LHMC)

### Major Activities and Achievements

Total number of laboratory investigations done by Pathology department was 4,59,540 in this year. Dept of Pathology had organized Quarterly meet of IAPM on 7/04/2018 . 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). Dr Sangeeta Pahuja Sindhwani, Professor is appointed as National Technical Expert for framing “guidelines for setting up blood storage centres at first referral units and National Technical Expert for finalizing the training manual for “ e- Raktkosh software training and strengthening of Blood Services”, under Ministry of Health and Family Welfare, Govt. of India. The faculty members from department presented talks in various national conferences.

### Publications

Deepthi B, Goyal S, Dhull RS, Rai P, Saha A. (2018). Frequent relapses in a child with nephrotic syndrome due to PLEVA. *Trop Doct.* ;48(4):348-349.

Garg T, Sanke S, Chander R, Agarwal S, Ahmed R. (2018). Infantile Systemic Lupus Erythematosus with Cerebral Calcification and Delayed Development. *Indian J Pediatr.*; 85(5):394-395.

Gaur K, Gupta RK, Saran RK et al (2019). Composite pleomorphic xanthoastrocytoma-ganglioglioma. Assessing and addressing the dilemma of differential expression of neuronal markers: case report with diagnostic perspective. *Indian J Pathol Microbiol.*62(2):296-299.

Jain M, Rao M, Thomas S, Sharma S, Puri V. (2018). Can gene profiling be replaced by surrogate immunohistochemical panels for identification of molecular subtypes of breast cancer? DOI: [https://doi.org/10.1016/S0959-8049\(18\)30652-X](https://doi.org/10.1016/S0959-8049(18)30652-X).

Jyotsna PL, Sehgal S, Chatterjee P. (2018). Hypocalcaemia following Transfusion of small Volume of Red Blood Cell Concentrate: An Unusual Case. *J Clin Diagnostic Res.* 12. 10.7860/JCDR/2018/31938.11408

Mendiratta V, Rana S, Manickavasagam S, Nangia A, Chander R. (2018). Cutaneous angiosarcoma in patient with systemic sclerosis: First case from India. *Indian J Dermatol Venereol Leprol.*;84(2):214-217.

Nangia A, Sehgal S. (2018). Gamna-Gandy bodies in a solid pseudopapillary tumor of the pancreas. *Indian J Cancer.* 55(2):201-202.

Nangia A, Sehgal S, Agarwal K. (2018). Masson's Tumor Masquerading as a Papillary Adenocarcinoma on Fine Needle Aspiration Cytology: A Case Report. *Turk Patoloji Derg.* 34(2):179-181.

Pahuja S, Sehgal S, Sharma G et al.(2019). The anti Mia antibody - report of four cases in a tertiary care hospital with review of literature. *Global J Trans Med.* 4(1):79-83

Patra B, Ajjij M, Chandra J, Agarwal N, Nangia A.(2019), Aetiopathogenesis of Myelofibrosis and its management in a child with Beta thalassemia major. *Transfus Clin Biol.*;26(1):56-59.

Prasad J, Goswami B, Gowda SH, Gupta N, Kumar S, Agarwal K, Mehra P, Pahuja, BK, Chauhan A. (2018). Does Hypoxia-Inducible Factor -1  $\alpha$  (HIF- $\alpha$ ) C1772T polymorphism predict short term prognosis in patients with oral squamous cell carcinoma ?. *J Oral Pathol Med.* ;47(7):660-664.

Puri V, Sharma P, Kotru M, Sikka M, Sharma S. (2018). Utility of simultaneous assessment of bone marrow aspirations and trephine biopsy sections in various haematological disorders. *Iraqi J Hematol*; 7:26-32

Puri V, Sehgal S, Khatoon M, Sharma G, Deorari S. (2018). An Unusual Case of ABO Discrepancy: Lessons Learnt. *J Clin Diagnostic Res*. 12(3):EL01-EL02

Sanke S, Chander R, Dalal K, Agarwal S. (2018) Metastatic tubercular gummas and splenic tuberculoma secondary to tubercular lymphadenitis in an immunocompetent female. *Int J Dermatol*;57(10):1229-1232.

Shukla S, Sehgal S, Prabhat P, Dewan K. (2018), Congenital Presentation of a Solitary Superficial Angiomyxoma in the Parotid Region masquerading as Parotid Tumor. *Turk Patoloji Derg*;34(3):262-264.

Sharma S, Agarwal S, Jain M, Singh GB, Andley M. (2018). Cytomorphological differences between Liquidbased Cytology and Conventional Smears in Fine-Needle aspirates of Thyroid Lesions. *J Cytol*. ;35(4):208-211.

Singh GB, Shukla S, Kumari P, Shukla I. (2018). A rare case of extra-nasopharyngeal angiofibroma of the septum in a female child. *J Laryngol Otol*. ;132(2):184-187.

Singh K, Jain M, Agarwal K, Pathania O. (2018). Cancer stem cell marker, CD44 expression in Indian breast carcinoma patients and its association with the molecular subtypes of breast carcinoma. *The Breast Online*. S105. DOI: [https://doi.org/10.1016/S0960-9776\(17\)30334-X](https://doi.org/10.1016/S0960-9776(17)30334-X)

Singh S, Swain M, Shukla S, Chander R. (2018). An unusual presentation of giant molluscum contagiosum diagnosed on cytology. *Diagn Cytopathol*. ;46(9):794-796.

Sharma S, Shivali S, Das R, et al. (2019) Phenotypic heterogeneity of delta- beta thalassemia. *Indian J Pathol Microbiol*.;62:185-186.

Shukla S, Singh D, Dewan K, Sharma S, Trivedi SS (2018).Antenatal carrier screening for thalassemia and related haemoglobinopathies: A hospital based study. *J Med Soc*.;32(2):118-122.

Verma D, Agarwal K, Tudu SK. (2018).Expression of breast cancer type 1 and its relation with expression of estrogen receptors, progesterone receptors,and human epidermal growth factor receptor 2/neu in breast carcinomaon trucut biopsy specimens. *Indian J Pathol Microbiol*.;61(1):31-38.

### **Published Books**

Sharma S, Tyagi, S.P., Chauhan, R. (2018). Concise Hematology, New Delhi: CBS.

Puri, Vandana., (2018). Complete review of pathology and hematology, New Delhi: CBS.

### **Journals**

Number of College teachers serving as Editors (s)/Member(s) of Editorial Board: 01

### **Research Projects**

(Deptt. of Health Research; 2018-19; Rs.30 lakhs) RT- PCR for Detection of common Fusion Transcripts in Childhood

### **Conferences Organized**

IAPM quarterly, April 2018

## Seminar/ Conferences Presentations

Dr. Shilpi Agarwal presented a paper on “Cytological approach to lymph node lesions” Cytocon ,48th annual conference , Goa; Nov.,2018

**Faculty Strength:** 13 (including 4 on contract)

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## 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. 18818 samples are received in histopathology each year including frozen sections for rapid intra-operative diagnosis, Immunofluorescence for skin lesions, processing small, medium and large surgical specimens, autopsy specimens, immune-histochemistry and special stains. 17591 samples in hematology are received. Complete hemogram, bone marrow aspirates and bone marrow biopsy. Varied tests are conducted in special hematology namely G6PD deficiency, osmotic fragility, HPLC, cytochemical stains and LE cell, Flow cytometry is being done for diagnosing hematolymphoid malignancies and PNH. Flow cytometry from Lymph node aspirates for diagnosing Lymphomas has been added.

9993 cytology specimens are 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, Clinico-pathological meets, projects, publications and thesis work. There has been overall growth in 9.8% as compared to previous year.

### Publications

Agarwal R, Gupta L, Singh M, Yashaswini N, Saxena A, Khurana N, Chaudhary D. (2018). Primary Laryngeal Tuberculosis: A Series of 15 Cases. *Head Neck Pathol.* 24

Amita Jain, Meeta Singh, Jenna B, Anusha S, Nita Khurana, S Jain. (2018). Role of Intraoperative Scrape Cytology from Ovarian Mass Lesions: A Study of 81 Cases. *J Cytol* (Accepted original Article)

Ashutosh Rath, Sarika Singh, Deeksha Singh and Nupur Parakh. (2018). Compound Heterozygous Haemoglobin Lepore/ Beta Thalassaemia Report and review of literature with Indian perspective. *ejpmr*, 5(6) 612-616

Barkha Gupta, Purna Arora, Richa Gupta, Nita Khurana. (2018), T-acute lymphoblastic leukemia/lymphoma, an unexpected cause of sudden death. *J Indian Acad Forensic Med*; 40, (2): 224-227.

Chaudhary D, Kaur N, Mandal S, Khurana N, Singh CB. (2019). Incidentally detected acalculous tubercular cholecystitis : A rare case report with comprehensive review of literature. *Indian J Pathol Microbiol.* (Accepted original Article).

Chauhan M, Behera C, Madireddi S, Mandal S, Khanna SK. (2018) Sudden death due to an invasive mole in a young primigravida : Precipitous presentation masquerading the natural manner. *Med Sci Law*; 58(3):189-193.

Dimple Chaudhary, Shramana Mandal, Nita Khurana, Pawaninder Lal. (2018). Aggressive Angiomyxoma of paratestis : a case report with a comprehensive review of literature. *J Genital System Disorders.*

Gupta L, Bhatt AS, Mallya V, Khurana N, Lal P. (2018). Adrenal medullary hyperplasia with coexistent cerebral angiomas. *Indian J Pathol Microbiol*; 61:587-9.

Gupta S, Vats P, Jha A, Singh K, Ghosh S, Tandon S, Khanna A, Kapoor S, Khurana N. (2019). Gingival manifestations of tuberculosis in pediatric patients: series of 4 cases. *Oral Surg Oral Med Oral Pathol Oral Radiol.*

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- Gupta A, Arora P, Singh M, Batra S. (2018). Testicular gastrointestinal stromal tumor (GIST):An extremely unusual secondary of gastric primary . *J Genit Syst Disord*; 7:1.
- Gupta B, Jain S. (2018). Perianal nodule due to *Enterobius vermicularis*: Cytomorphological spectrum on fine needle aspiration cytology with a review of literature. *Tropical Parasitol*; 8 (1): 53-55.
- Gupta B, Jain S. (2018). Primary marginal zone lymphoma arising from floor of mouth: A rare case report. *J Cytol*; (Accepted case report)
- Jain N, Gupta V, Mathur NB, Kumar A, Khurana N, Sarin YK. (2019). Enterogenous Cyst Presenting as Mediastinal Mass in a Newborn. *J Indian Assoc Pediatr Surg*; 24(1):72-74.
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- Latika Gupta, Sarika Singh. (2019). Cutaneous Myopericytoma with coexistent Glomangiopericytoma : A paradigm of overlapping features, *IJD PDD*. (in press)
- Mehul Agarwal, Manu Vats, Sushanto Neogi, Pranav Mohan Singhal, Shramana Mandal. (2019). Pseudopapillary tumor of the pancreas in an adult female. *Int J Anatomy Radiol Surgery*; 8(2):SC01-SC03.
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- Nishant Sagar, Pritika Kushwaha, Varuna Mallya, Nita Khurana, NS Hadke. (2018). Neuroendocrine carcinoma of prostate- a case report. *J Cancer Res Therapeutics*. (Accepted original Article)
- Rathi R, Jain A, Mandal S, Khurana N, Tripathi R. (2018). Giant chorangioma presenting with an absent foetus: a mystery! *J Obstet Gynaecol*. [Epub ahead of print] PubMed PMID: 29620423.
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- Relhan V, Sandhu J, Garg VK, Khurana N. (2019). Linear Lichen Nitidus with Onychodystrophy in a Child. *Indian J Dermatol*; 64(1):62-64
- Radhika Agarwal, Meeta Singh, Reema Dhahiya, Nita Khurana, VK Garg. Amita Jain, Meeta Singh, Jenna B, Anusha S, Nita Khurana, S Jain. (2019). Role of Intraoperative Scrape Cytology from Ovarian Mass Lesions: A Study of 81 Cases. *J Cytology* (Accepted original Article)
- Radhika Agarwal, Meeta Singh, Ankita Jaiswal, Sushil Sharma, Nita Khurana, Shyama Jain, Ravi Meher. (2019). Utility of Fine Needle Aspiration Cytology to diagnose Intraoral tuberculosis and other oral Granulomatous Lesions. *Diagnostic Cytopathol* (Accepted original Article)
- Radhika Aggarwal, Deepika Rana, Meeta Singh, Shramana Mandal, Shyama Jain, Rathi. (2019). Mucinous breast carcinoma metastatic to parotid gland: report of a case diagnosed by fine-needle aspiration. *Cytopathol* (Accepted as Case report)
- Saxena P, Agarwal R, Nain G, Khurana N, Lal P, Tudu SK. (2018), Synovial hemangiomas of wrist and ankle joint: A report of two rare cases. *Indian J Pathol Microbiol*. ;61(4):604-606.

- Surekha Yadav, Meeta Singh, Pomilla Singh, Shramna Mandal, Nita Khurana, Shyama Lata Jain. (2019). Cytological Evaluation of Pericardial fluids: A 5 years experience in tertiary care centre. *Indian J Pathol Microbiol*; (Accepted- brief communication)
- Surekha Yadav, Varuna Mallya, Nita Khurana. (2019). Xylene free staining- Is it practical and possible? *Indian J Pathol Microbiol*. (Accepted original Article)
- Sagar P, Shankar R, Wadhwa V, Singh I, Khurana N. (2018). Primary tubercular dacryocystitis - a case report and review of 18 cases from the literature. *Orbit*; 24:1-4.
- Singh L, Sengar M, Goyal S, Mansi M, Khurana N, Mohta A. (2018). Childhood Phimosi Secondary to Lichen Sclerosus: Is there a Spatial Pattern of Histopathological Changes? *Am J Dermatopathol*; 40(11):824-828.
- Sunil Pasricha, Meenakshi Kamboj, Parul Tanwar, Gurudutt Gupta, Manoj Panigrahi, Anila Sharma, Garima Durga, Anurag Mehta. (2019). Immunophenotyping of Male Breast Cancer - Experience at a Tertiary care Centre. *Indian J Pathol Microbiol*. (Accepted original Article)
- Sarika Singh, Ashutosh Rath, Surekha Yadav . (2018). Primary Plasma Cell Leukemia: Case report and review of literature. *Sultan Qaboos University Medical J*; 18:397-401.
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- Sunita Gupta, Khushboo Singh, Anju Garg, P.S Bhandari, Shyam Kishor Shah, Ernst Reichenberger, Seema Kapoor, Shyama Jain, Nirupama Trehanpati. (2019). Clinicoradiologic follow up of cherubism with aggressive characteristics: A series of 3 cases. *Oral Surgery, Oral Medicine, Oral Pathology Oral Radiology*. (in Press).
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- Sagar P, Jain K, Jain S, Bansal R. (2019). Solitary Giant Osteoma of Mandible. *J Clin Diagn Res*. e-pub ahead of print 2018 MD04- MD06
- Sagar P, Rajpurohit P, Singh I, Mandal S. (2019). Giant De Novo Pleomorphic adenoma of parapharyngeal space, can it cause spinal deformity? A case report. *Spine Deform*; 7(3):505-508.
- Yadav S, Sagar N, Mallya V, Mandal S, Khurana N, Gupta S. (2018). Extensive trophoblastic differentiation in case of an endometrial carcinoma. *Indian J Pathol Microbiol*; 61:614-6
- YadavS, Verma N, Khurana N, Neogi S. (2018). Recurrent dermato-fibrosarcoma Protuberans with Pigmentation and Myoid Differentiation. *Sultan Qaboos Univ Med J*;18(2):e228-e230.
- Varuna Mallya, Latika Gupta, Nita Khurana, Lalit Maini. (2019). Spontaneous regression of giant cell tumor of the wrist- myth or fact? *Indian J Pathol Microbiol*. (Accepted original Article).
- Vinayagamani S, Prakash A, Chowdhury V, Jain S, Gulati A, Garg A. (2018). Is Acoustic Radiation Force Impulse (ARFI) ultrasound elastography valuable in the assessment of cervical lymphadenopathy? *Ind J Otolaryngol and Head Neck Surgery*; 70 (4): 597- 603.
- Vishal Singh, Navpreet Kaur, Shramana Mandal, Nita Khurana, Sangeeta Bhasin. (2019). Bilateral ovarian fibromas with concomitant unilateral serous cystadenomas: a rare case with review of literature. *J Obstetrics Gynaecol*; (Accepted)
- Vats M, Sachan V, Prajapati S, Mandal S. (2018). Triple receptor positive primary neuroendocrine carcinoma of breast in a young patient. *British Med J Case Rep*; pii:bcr-2017-223280.

## **Journals**

Number of department teachers serving as Editors/member of editorial board- One

Shyama Jain has been the Member Editorial Board for, Journal of Cytology, and Journal of MAMC Medical Sciences

## **Research projects**

Dr Reena Tomar. (DST funded extramural project), "To study the effect of Rajayoga Meditation on Psychological health and Cognition of Medical Students".

Following ongoing intramural projects, Rs 1.5 Lakh / Project

Khuraijam Bembem: Morphological and Immunohistochemical Study of Human Papillomavirus-Related Carcinomas of the Sinonasal tract.

Nidhi Verma: Utility of manual liquid based cytology and its comparison with conventional smears in FNAC samples.

Purna Arora: Distribution of interstitial cells of Cajal (ICC) in Hirschsprung disease: An Immunohistochemical study.

Reena Tomar: Role of Cancer Stem cell markers CD44, CD133 and CD49f in Triple negative breast cancers and their association with histological grade, angiogenesis and metastasis.

Sarika Singh: Genotypic sub classification of Diffuse large Bcell lymphoma by expression of Myc, Bcl2 and Bcl6 in a tertiary health care centre.

Shramana Mandal: Correlation Of P16 And Galectin 1 And 3 Expression In Dysplasias And Squamous Cell Carcinomas Of Buccal Mucosa.

Varuna Mallya: Morphological and Immunohistochemical study of fallopian tubes in ovarian serous tumours.

## **Seminars organized**

CPC are regularly organized in collaboration with Department of Medicine, Department of Surgery and Department of Otorhinolaryngology

## **Conferences organized**

Quarterly Meet of IAPM- Delhi Chapter, Oct., 2018.

34th Annual Conference of Delhi Chapter IAPM, Mar., 2019.

Delhi chapter of Indian Academy of Cytologist workshop on "Cytological Approach to Lymph Node Lesions" for PG students, Feb., 2019

## **Seminars Conferences presentations**

Meeta Singh poster presentation "Cytological spectrum of Oral NHLs" at Annual Conference of Indian Academy of Cytology, Goa, Nov., 2018.

Nita Khurana: Guest lecture on Carcinoma Breast- Current concepts and its therapeutic implications. In Surgery Update organized by Department of Surgery, MAMC & LNH, Oct., 2018.

Shyama Jain: Guest lecture on, 'Cytological Approach of Soft Tissue Lesions', in UP CYTOCON,, Subharti Medical College, Meerut, UP ; Sept., 2018.

Sarika Singh : Guest lecture on Newer RBC parameters in Clinical meet of haematologist Sept., 2018.

Shramana Mandal lecture on newer entities in the WHO classification of oral lesions in IAPM Delhi Chapter quarterly meet held at MAMC, Oct.,2018.

### **Faculty strength -11**

#### **Other significant information**

Many prizes were won by doctors

First prize to Dr Varuna Sipayya for the paper, "Can tumour stroma ratio determine response to neo adjuvant chemotherapy?" at 67th Annual conference of IAPM , APCON , Bareilly.Dec., 18,

Second Prize to Sneha Goswami for poster presentation on "Infantile fibrosarcoma of base of the tongue– a rare case" at CME on oncopathology- an update, at ESIC Faridabad. Mar., 2018.

Second Prize to Sneha Goswami for poster presentation on: Diagnostic utility of neutrophil CD64, monocyte HLADR and CD16 in neonatal sepsis. Annual meeting of of Delhi Society of Hematology , UCMS, Sept., 2018.

Second Prize to Kanika Gupta for poster presentation "Congenital Pulmonary Airway Malformation- A histomorphological spectrum of 14 cases" at 67th Annual conference of IAPM , APCON , Dec 2018.

Best Poster to Deepika for "Direct Immunofluorescence (DIF) Versus Immunohistochemical (IHC) Staining of Complements and Immunoglobulins (Ig) in Pemphigus Group", at DAPCON 2019 34th Annual Conference of Delhi Chapter, Mar., 2019.

#### **Extension & Outreach Activities**

Department of pathology involved in Health services to the community. Department being the nodal center receives samples of "Stree Shakti Programme" and "Cancer Control Programme" from various camps held in Delhi and routinely samples for cancer diagnosis from other Delhi Government hospitals for processing and reporting

Dr Shyama Jain is Member Subject Expert by UPSC, UGC, CSIR, ESIC, DMC, for selection of faculty post at PGIMER Chandigarh & AIIMS.

Dr Nita Khurana is a member of committee to evaluate Best thesis of outgoing post graduate student of MAMC; Executive Member , IAPM-Delhi Chapter; Faculty MEU-MAMC involved in NTTP, rBCW, CISP & capsule courses for SRs; Convener, Pathology; Treasurer of College magazine Synapse; Member of College curriculum committee for monitoring and implementation of CBME; Member of committee For L.G. Governors rolling trophy award; Member of Committee for KB Sharma Rolling Trophy; Member of committee for the B.S.Mathur Young scientist award; Chairperson committee for R.P. Mathur Best Postgraduate Pathology Award; Member Institutional Ethics Committee MAMC; Member of 'Committee of Courses and Studies' in Pathology , University of Delhi; Co-Chairperson of Post Graduate Cell for approval of Thesis/Protocols of the MAMC PG students and super-speciality students of GIPMER; Member of screening committee for Group D employees for the post of attendants and Library attendant at MAMC, Chairperson on Interview Board for Senior resident's selection at MAMC.

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### **PATHOLOGY (VPCI)**

#### **Publications:**

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*; 143: 86–96.

Pandey A, Kulshrestha R, Menon B, Rajkumar, Gaur SN. (2018). Anthracotic pigment in transbronchial lung biopsy: An innocent bystander or pathogenic agent for parenchymal lung disease. *Indian J Chest Dis Allied Sci*; 60:27-31



Singh L, Kulshrestha R, Singh N, Jaggi AS. (2018). Mechanisms involved in adenosine pharmacological preconditioning- induced cardioprotection. *Korean J Physiol Pharmacol*; 22:225-234.

Vaidya S, Gothi D, Kulshrestha R. (2019). 'St Peregrine tumor' with synchronous primary renal cell carcinoma'. *Lung India*. (accepted).

### **Research Projects**

Ritu Kulshrestha ( ICMR 2015. Rs: 7.5 lakhs): - Extracellular matrix remodeling and expression of matrix metallo-proteinases in pulmonary fibrosis.

Ritu Kulshrestha ( DST Rs.57.45 lakhs), Study of the post transcriptional mechanisms underlying pulmonary fibrosis and their modulation by therapeutic agents..

### **Seminars/ Conference Presentations**

Dr Ritu Kulshrestha

Presented “Designing of polymeric nanoparticle drug delivery systems for the treatment of lung fibrosis” Nanobiotek-2018, 3rd Annual Conference of Indian Society of Nanomedicine, at AIIMS, New Delhi, Oct., 2018.

Resource Person on “Potpourri of interesting cases and diagnostic traps in broncho-pulmonary cytology” at CME on Gray Zones and Recent Updates in Breast, Thyroid, Bronchopulmonary and Cervical Cytology at Division of Cytopathology National Institute of Cancer Prevention & Research, Noida, June, 2018

Presented “Tumor dedifferentiation and interstitial lung disease are indicators of poor prognosis in advanced stage papillary adenocarcinoma of lung treated with gefitinib”, at the 5th Annual Conference of Asia-Australasian Pulmonary Pathology Society, held in Taipei, Taiwan, Mar.,-Apr., 2018.

Presented “Bosentan therapy modulates miR-21-TGF-β1-bFGF-Let-7d axis and attenuates the development of pulmonary artery hypertension after bleomycin injury” 5<sup>th</sup> European Congress of Immunology, Amsterdam, the Netherlands, Sept., 2018.

Resource Person on “Interpreting Pathology in ILD: What Every Physician Should Know” Nov.,2018.

### **Inter-institutional Collaboration**

Dr Ritu Kulshrestha is collaborating with All India Institute of Medical Sciences , Delhi; INMAS, DRDO Kaushik, CIC-Univ of Delhi

### **Faculty Strength: 01**

Dr. Ritu Kulshrestha

Member Secretary of the Department of Health Research, GOI- ICMR-VPCI-Multidisciplinary Research Unit, at VPCI from April 2014 to 20 May 2019.

DST nominee to the Facility management committee of, “Sophisticated Analytical Instrument Facility (SAIF)”, New Delhi (AIIMS) from 10/8/2018 to 9/8/2021.

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).

Councilor Member of the Asia-Australasian Pulmonary Pathology Society (AAPPS) since 2016.

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## PATHOLOGY (UCMS)

### Major Activities and Achievements

Department of Pathology is actively involved in teaching MBBS, MD, paramedical. MLT and BSc Physiotherapy students, providing diagnostic services and research activities. The facilities available in histopathology section include routine histopathology with special stains, immunohistochemistry, frozen section, immunofluorescence for skin and kidney specimens, review of referred slides and blocks and autopsy services. Haematology laboratory services include complete haemogram and peripheral smear, bone marrow aspiration and biopsy, special investigations for workup of patients with hemolytic anemias, (Hb electrophoresis, HPLC etc.), nutritional anemias, coagulation disorders, leukemias and flow cytometry. The services available in cytopathology laboratory include fine needle aspiration cytology (including USG & CT guided), gynecologic cytology, fluid cytology for malignant cells, sputum smears examination and immunocytochemistry. Blood bank, histopathology, cytopathology and haematology laboratory are participating in external quality assurance programs (EQAS). The faculty, residents and laboratory staff of the Department of Pathology strive to provide good patient care with minimum turn-around time.

### Publications

Ahuja, S., Tanveer, N., Haflongbar, T., Arora, VK. (2018). Cytological findings of a rare case of transitional cell carcinoma bladder presenting with supraclavicular lymphnode metastasis. *J Cytol*; 35:129-30.

Bansal, T., Tanveer, N., Singh, UR., Sharma, S., Kaur, N. (2018). Y-Box binding protein 1 expression in breast cancer and its correlation with hormone receptors and other prognostic markers. *J Lab Physicians*.;10(4):420-425.

Bhattacharya, J., Gupta, R. (2019). Pediatric CML presenting in Mixed Phenotypic Blast Crisis : A Rare Occurrence. *Turk J Haematol*. doi: 10.4274/tjh.galenos.2019.2018.0428.

Chopra, N., Narang, S., Diwaker, P. (2018). "Multiple cutaneous metastasis of sacral chordoma, mimicking neurofibromas clinically". *Annals of Pathology and Laboratory Medicine*.; 5(4):C65-C67.

Dhakar, S., Diwaker, P., Gogoi, P., Singh, B., Kumar, S. (2018). Platelet Count Estimation using Unstained and Stained Peripheral Blood Smears: A Comparative Study. *J Clin Diagn Res*. 12(7):EC14-EC16.

Garg, N., Diwaker P, Aggarwal S, Gaur JH. (2018). Chorangiomas placenta with 5-vessel Umbilical cord with omphalomesenteric duct remnant: An unusual association. *Turk J Obstet Gynecol*.; 15(4):270-272.

Garg, N., Bansal D, Mangla G, Kotru, M. (2018). Bone marrow edema mimicking amyloid. *Indian J Pathol Microbiol*., 61(4):623-625.

Garg, N., Kotru, M., Kumar, D., Pathak, R., Sikka, M. (2018). Correlation of expression of aberrant immunophenotypic markers in T-ALL with its morphology: A pilot study. *J Lab Physicians*;10(4):410-413.

Garg, N., Kotru, M., Yadav, A., Rusia, U., Sikka, M., Kalra, OP. (2018). Serum Ferritin <70µg/L predicts functional iron deficiency in patients with chronic kidney disease. *Saudi J Kidney Dis Transpl*;29(5):1035-1041.

Garg, N., Raina, S., Kotru, M., Sikka, M. (2018). Erythrophagocytosis in Bone Marrow: A clue to pyrexia of unknown origin. *Journal of Microbiology and Infectious diseases*.; 8 (2):73-75.

Garg, P., Pathak, P., Goyal, R., Arora, VK., Singh, N. (2018). Current practice in handling and reporting needle biopsies: A hospital-based survey. *Indian J Pathol Microbiol*.;61(2):197-200.

Garg, N., Tanveer, N., Gaur JH. 2019. Utility of Whatsapp as a tool for tele-oncopathology for oral lesions. *Indian J Surg Oncol*; Online ahead of print .<https://doi.org/10.1007/s13193-019-00919-4>

Goyal, A., Narang NC, Sharma S, Kotru M. (2018). Unusual morphology of multiple myeloma. *J Hematopathol* ; 11:81-2.

Goyal, A., Pathak, P., Sharma, P., Sharma, S. (2018). Role of FNAC in diagnosing lesions of hand and wrist. *Diagn Cytopathol.*;46(10):853-858.

Gogoi, P., Sinha, P., Gupta, B., Fimal, P., Rajaram, S. (2019). Neutrophil-to-lymphocyte ratio and platelet indices in pre-eclampsia. *Int J Gynaecol Obstet.*;144(1):16-20.

Gogia, A., Sikka, M., Sharma, S., Rusia, U. (2018). Hemostatic abnormalities in multiple myeloma. *Asian Pacific Journal of Cancer Prevention*;19(1):127-130.

Goyal, R., Tanveer, N., Singh, UR. (2019). Primary Mucinous Eccrine Adenocarcinoma: A rare skin adnexal tumor at an unusual site. *J Cytol*;36:71-72.

Sodhi, R., Sikka, M., Kotru, M., Gurubachan, N. (2018). Thrombocytopenia and coagulopathy in Indian patients with isolated head trauma. *Annals of Pathology and Laboratory Medicine*; 5(1): 17-21.

Sodhi, R., Sikka, M., Kotru, M., Gurubachan, N. (2018). Coagulopathy as a predictor of outcome in Indian patients with isolated head trauma. *International Journal of Current Research*; 10(4) :68203-68205.

Tanveer, N. (2018). Quality does not reside in files: Its a way of life. *Indian J Pathol Microbiol*; 61:304-305.

Yadav, S., Gupta, R., Anuradha, S., Makkar, AM. (2019). A rare case of disseminated penicilliosis - first of its kind from North India. *Indian J Pathol Microbiol.*;62(1):156-158.

Yhome, AV., Tanveer, N., Pandhi, D., Wadhwa, N., Mishra, K. (2018). p16 immunopositivity in anogenital warts. *Ind J Basic Appl Med Res*;8:91-95.

### **Chapters in Books**

Garg N, Kotru M. Approach to diagnosis of hemolytic anemias. In Hematology Pearls 2018. eds Purohit A, Bohra G, AIIMS Jodhpur. Muskan Graphics, Jodhpur.

Gogoi P. Fetal Autopsy and Placental examination as a Complimentary Tool in Recurrent. Pregnancy loss, 227-241, 2018. Springer.

Gogoi P. Pathology of COPD, Chronic obstructive Pulmonary disease, 31-47, 2018 CBS Publishers & Distributors Pvt Ltd.

Kotru M. Thrombotic microangiopathy. What's New? In Hematology -2018. Education programme book. pub Hematology Education & research society (HERS) & Department of hematology. AIIMS, New Delhi. 2018. 111-113.

Sikka M, Harresh Kumar B. Iron metabolism and iron deficiency anemia. In Update in Hematology 2018.

Sikka M. Approach to a patient with bleeding disorders. In Hematology Pearls 2018. eds Purohit A, Bohra G, AIIMS Jodhpur. Muskan Graphics, Jodhpur.

### **Number of Department Teachers serving as Editor/ Member of Editorial board: 2**

Dr. Mrinalini Kotru published journal for Medical Education unit 'MEU Connect' released in September, 2018 as an Editor –in chief.

### **Research Projects**

Dr. Sonal Sharma (UGC Rs 14,20,000. Entitled To study the role of Type I regulatory T cells in skin in patients with *Pemphigus vulgaris* during acute disease and remission, grant -

## **Conferences Organized**

Organized Annual Conference of Delhi Society Of Hematology on 23 Sep. 2018.

Organized Quarterly Meet of Delhi Chapter Indian Academy of Pathologists & Microbiologists on 25 August 2018.

## **Seminar/ Conference Presentations**

Ashish C Philip, Gunjan Mangla, Preeti Diwaker, Nadeem Tanveer, Vinod K Arora FNA diagnosis of metastatic sebaceous carcinoma in the intraparotid lymph node. VIIth Annual Conference Delhi Chapter IAC, DC IAC 2018 organized by UCMS & GTB Hospital, Delhi Sept., 2018.

Maru P, Sharma S, Kotru M, Gogoi P, Avasthi R. Paraoxanase 2 genepolymorphism is not associated with the development of coronary artery disease in Indian Population. 29th annual conference of Delhi Society Of hematology organized by UCMS & GTBH at Leela Ambience Convention Hotel Sept. 2018.

Philip AC, Sikka M, Gogoi P, Diwaker P, Kotru M. Serum Ferritin in first time and regular voluntary blood donars. 29th annual conference of Delhi Society Of hematology organized by UCMS & GTBH at Leela Ambience Convention Hotel.Sept., 2018.

Shastri M, Kotru M, Raizada A, Sharma S, Sikka M, Mahajan B. Inflammatory Markers in Geriatric anemia in 29th annual conference of Delhi Society Of hematology organized by UCMS & GTBH at Leela Ambience Convention Hotel. Sept., 2018.

Sharma I, Sikka M, Kotru M, Raizada A, Tanveer N. Prevalence of antiphospholipid antibodies inpatients with SLE. 29th annual conference of Delhi Society Of hematology organized by UCMS & GTBH at Leela Ambience Convention Hotel. Sept., 2018.

Yadav P, Tanveer N. Giant Colonic Lipoma causing Intussusception in Adult: A case report. Annual Conference of Delhi Chapter of Indian Association of Pathologists and Microbiologists 2019 held at MAMC Auditorium organized by Maulana Azad Medical College and GIPMER, New Delhi. Mar., 2019.

## **Other Significant information**

Ashish C Philip, Meera Sikka, Priyanka Gogoi, Preeti Diwaker, Mrinalini Kotru: Best Poster Award for "Serum ferritin in first time and regular voluntary blood donors" in Proceedings of 29th Annual Conference Delhi Society of Hematology 2018 organized by UCMS & GTB Hospital, Delhi. Sept., 2018.

Preeti Diwaker inspected Blood Banks as a blood bank expert through Drug Control Department, Delhi. ; prepared training Schedule for Histopathology & Cytology and Hematology & Blood Banking for DMLT course being run under National Institute of Open Schooling (NIOS).

Zini Chaurasia, Sonal Sharma. 2nd Prize in Oral Paper Category " Role of DIF, special stains and CK15 IHC in cicatricial alopecia" in Annual Conference of Dermatopathology Society of India 2018 organized by Dr. D Y Patil College and hospital, Navi Mumbai.

3rd Prize in Oral Paper Category. Malvika Shastri, Mrinalini Kotru, Alpana Raizada, Satendra Sharma, Meera Sikka, Bhawna Mahajan. Inflammatory markers in geriatric anemia in Proceedings of 29th Annual Conference Delhi Society of Hematology 2018 organized by UCMS & GTB Hospital, Delhi. Sept., 2018.

Best Poster Award in Gastrointestinal pathology category. Yadav P, Tanveer N. Giant Colonic Lipoma causing Intussusception in Adult: A case report. 34th Annual Conference of Delhi Chapter of Indian Association of Pathologists and Microbiologists 2019 held at MAMC Auditorium organized by Maulana Azad Medical College and GIPMER, New Delhi. Mar., 2019.

## **Faculty Strength: 11**

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## PEDIATRICS (MAMC)

### Major Activities and Achievements

All the Faculty Members were actively involved in UG & PG Teaching & published many papers in various national & International Journals and also organized many workshops and Symposia. A proportion of the faculty is involved in PhD programs and is also a part of various advisory groups in govt. health programs.

### Honours/Distinctions

Dr S. Yadav

Chief Guest for AHA Nagpur Installation, Presented talk as Key note address on Life skills. July., 2018.

Guest of honor for All about Fever ,WS at East Delhi Meet. Oct .,2018.

### Publications

Agarwal, A., Jain, A., Khalil, S., Mishra, D., Sethi, M.. (2018). Text-messaging to supplement classroom teaching in undergraduate medical students: A non-randomized controlled trial. *MAMC J Med Sc*, 4,128-132.

Agarwal, S., Dabas, A., Mantan, M., Yadav, S. (2019). Hemophagocytic lymphohistiocytosis with neurological manifestations in an infant with scrub typhus: a rare fatal occurrence. *Trop Doct*, 49(1), 52-53.

Alzahrani, F., Alhabeeb, L., Alsahli, S., Kapoor, S., Maddirevula, S., Patel, N., Shamseldin, H.E., et al. (2018). Expanding the phenome and variome of skeletal dysplasia. *Genet Med*, 20(12), 1609-1616.

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Dhinakaran, R., Mishra, D. (2019). ILAE classification of seizures and epilepsies: An update for the pediatrician. *Indian Pediatr*, 56, 60-62.

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- Juneja, M., Tyagi, V., Jain, R. (2019). Sleep Problems and Their Correlates in Children with Autism Spectrum Disorder: An Indian Study. *Journal of autism and developmental disorders*, 3, 1169-1181.
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Mishra, D., Vats P.(2018). Comparison of International Clinical Epidemiological Network Diagnostic tool for Autism Spectrum Disorder (INDT-ASD) against DSM-5 for the diagnosis of autism. *Indian Pediatr*, 55, 482-484.

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Sheth, J., Bhavsar, R., Mistri, M., Pancholi, D., Bavdekar, A., Dalal, A., et al. (2019). Gaucher disease: single gene molecular characterization of one-hundred Indian patients reveals novel variants and the most prevalent mutation. *BMC Med Genet*, 20(1), 31.

Sahu, P.K., Mishra, D., Juneja, M., Taneja, K. (2019). Clinico-etiological profile and developmental status of infants aged 1-24 months with epilepsy. *Indian J Pediatr*. 86(8), 681-685.

Vats, P., Verma, P., Varughese, S., Kumar, S., Kapoor, S. (2018).. Frontotemporal Atrophy: Presenting Sign in Infantile Cobalamin Deficiency. *Indian J Pediatr*, 85(7), 565-566.

#### Books/Chapter Published

A Dabas. (2018). Failure to thrive and Short stature in Textbook of Pediatrics for Undergraduates, 2nd Ed, Eds: Piyush Gupta. Jaypee Brothers Medical Publishers

A Dabas. (2018). Epidemiology of obesity in Recent advances in Pediatrics, Eds: Suraj Gupte, Jaypee Brothers Medical Publishers

A Dabas. (2018). Hypertension in children in Textbook of Pediatrics for Undergraduates, 2nd Ed, Eds: Piyush Gupta. Jaypee Brothers Medical Publishers.

Dhinakaran, R., Mishra, D. (2019). ILAE classification of seizures and epilepsies. In: Mishra D, Shah D. Best of Indian Pediatrics, 3rd Ed. CBS Publishers, Delhi.

Jhamb U. (2018). Corrosive poisoning. In:- PG text book of Pediatrics. 2nd edition. Eds Piyush Gupta, PSN Menon, Siddarth Ramji and Rakesh Lodha. Jaypee Brothers Medical Publishers

Mishra, D., Sharma, S., Sankhyan, N, et al. (2019). Management of Childhood Convulsive Status Epilepticus. In: Mishra D, Shah D. Best of Indian Pediatrics, 3rd ed. CBS Publishers, Delhi.

Mishra, D., Shah, D. Best of Indian Pediatrics, 3rd Ed. Published by CBS Publishers, Delhi; 2019. ISBN: 978-9388725620.

Suresh, Gupta., Anurag, Agarwal. (2018). Rabies prevention and vaccination: What is new? In Childhood Vaccination - A guide for the Pediatrician. 2nd edn. Ed A.K.Dutta. Publisher: Indian J Paediatrics

Sharma, N., Mishra, R., Mishra, D. (2019). Diagnostic and Statistical Manual, 5th edition. In: Mishra D, Shah D. Best of Indian Pediatrics, 3rd ed. CBS Publishers, Delhi.

Yadav, S., Mantan, M. (2018). Measles, Mumps and Rubella. In Childhood Vaccination A guide for Pediatrician. Ed. Dutta AK. Publisher: The Indian Journal of Pediatrics, New Delhi.

Yadav, S., Dabas, A. (2018). Epidemiology of obesity. In Recent advances in Pediatrics, Eds: Suraj Gupta, Jaypee Brothers Medical Publishers

Autism Spectrum Disorder- An Indian Perspective: Recent Advances in Autism. [www.smgebooks.com](http://www.smgebooks.com)

## **Research Projects**

DST, 2018-2019, Development of a point-of-care (POC) diagnostic panel for rapid detection and stratification of bacterial septicemia in critically-ill patients, U.Jhamb

ICMR, 2016-2019), To compare the efficacy of caregiver administered intervention program with weekly versus 6-weekly training sessions for children with autism, M. Juneja

Govt. Of NCT, Delhi, 2018-2019). Antenatal screening of women for thalassaemia status, S .Kapoor

ICMR, 2018-2019, Comparison of caregiver administered behavioral intervention program with weekly versus six-weekly training sessions for children with autism: A randomized trial, R .Jain.

## **Conference/Workshops organized**

Update on Pediatric primary immune deficiency, MAMC. Apr., 2019

Organized 10th World Rare Disease Day at Maulana Azad Medical College, New Delhi. Feb., 2019.

Dr. Rahul Jain: PG Workshop on Practical aspects of Developmental assessment at Seminar room, Department of Pediatrics, MAMC & LNH. Feb., 2019

## **Seminar/Conference Presentations**

Dr. A. Dabas Delivered a talk on “Subclinical hypothyroidism” at Annual meeting of Growth hormone research society held at Apollo hospital, New Delhi Jun., 2018.

Dr. M. Mantan presented poster entitled “Acute Kidney Injury in nephrotic syndrome” at the 30th annual meeting of Indian Society of Paediatric Nephrology held at Hyderabad Nov- Dec, 2018.

Dr. U. Jhamb presented poster entitled “Role of steroids in prevention of post extubation stridor” at world federation of pediatric intensive and critical care societies, Singapore .June., 2018.

Dr. S. Yadav was invited Speaker for lecture entitled “Adolescent Anxiety Disorder” at Workshop on Handling Difficult Adolescents, PEDICON 2018, Nagpur, Maharashtra , Jan., 2018.

Dr. S. Kapoor delivered a lecture on Diagnosis and Management LSDs (Focus on Gaucher Disease) in Approach to Lysosomal Storage Disorders (ISIEM) at Department of Pediatrics, IMS-BHU. Sept., 2018.

## **Number of M.Phil/Ph.D. Degree Awarded**

Ph.D: 1

## **Other Significant Information**

A. Agarwal is Vice president IAP Delhi.; President IAP North Delhi; Secretary Consortium against Rabies; As expert for Delhi Government to investigate medicolegal complaints and interview panels; Member of State Technical Advisory Group on Immunization; Member of expert panel of National Centre for Disease Control for Rabies.

M. Juneja is Expert Group for identifying the gaps and areas of collaborations with mohfw, mosje and other Govt and non Govt. Stakeholders in the management and surveillance of Neuro-Developmental Disorders (NDD) under NMHP, NCDC. June ,2018.

M. Mantan is Member of Committee for preparation of draft guidelines for roll out of peritoneal dialysis under National Health Mission.

U. Jhamb was Course director for IAP ALS course at AIIMS March 2018; Faculty for PFCCS course at Kurukshetra on 15th -16th Dec 2018; Member of committee of courses and examinations Delhi university faculty of medical sciences; Member of Departmental research committee for pediatrics, Delhi University



Faculty of Medical Sciences; Participated in programme in Doordarshan 1 Channel on safe mother and child panel discussion on 8th December, 2018

S. Yadav Guest of Honor at East Delhi IAP Annual meet Jan 2018; Chairperson Workshop on Primary Immunodeficiency 17th Feb 2018 New Delhi; Chairperson Workshop on Pediatric Nephrology 18th Feb 2018 New Delhi; Guest of Honor for IAP Women's wing program "YUVA PE CHARCHA" program on International Women's Day 8th Mar 2018, Hyderabad;

S Kapoor appointed Task Force Member of Human Genetics & Genomics by DBT.

Member of Task Force for Metabolic errors by the ICMR; Member of advisory board of IVF and reproductive Biology center, MAMC, New Delhi; Member Task force on Lysosomal storage Disorders by the ICMR; Member of the small molecule group registry under the registry; a. Member of the Central PNDT committee; Member of the National Newborn Screening Committee

Sonali Jain, Amol Preet Kaur Saini, Rohini Dutta, Idha Sood, Sargun Virk, U Jhamb 3rd Prize at 39th Asian Medical Students' Conference (AMSC) 2018, Kuala Lumpur, Malaysia July 2018, on paper entitled "To study the effect on microbial load before and after installation of portable air purifiers in a pediatric intensive care unit in a public sector hospital in urban India"

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## PHARMACOLOGY (LHMC)

### Major activities and achievements

In the period from 1st April 2018 to 31st March 2019, the department has contributed significantly for progress of the discipline. The faculty and post graduate students of the department presented papers in national and international conferences. A total of seven research papers have been published in peer reviewed indexed national and international journals. Dr. H. S. Rehan, Director Professor & Head of the Department, served as a member of subject expert for CDSCO, ICMR, IPC etc. and chairman of several committees at national and Institutional level. Dr. Lalit Kumar Gupta, Director Professor of the Department, served as a Chief Vigilance Officer of the Institute. All Professors and associate professors served as examiner for undergraduate and postgraduate Pharmacology examinations conducted by various universities across the country. The postgraduate students of the department obtained First prize in 'National Pharma quiz-2018' held in PGIMER Chandigarh in December 2018. The department is in collaboration with IPC Ghaziabad is participating in the Pharmacovigilance Programme of India and is regarded among to top five national centres in items of adverse drug reaction monitoring. Recently department has become one of the AMC centre for Materiovigilance Program of India.

### Publications

Arora, T., Rudhra, P. K., Chandane, R. D., Gautam, C. (2018). Prescribing pattern of antimicrobials and adverse drug reactions in children suffering from lower respiratory tract infection in tertiary care hospital. *International Journal of Basic & Clinical Pharmacology*, 7 (11), 2240-2246.

Goyal N, Rehan HS. (2018). Journey of Marketed Unapproved Drugs in the United States. *Journal of Rational Pharmacotherapeutics and Research*, 4 (2), 35-41.

Kumar, M., Rehan, H. S., Puri, R., Yadav, M., & Gupta, L. K. (2018). Randomized controlled trial comparing the efficacy of daily and every other day atorvastatin therapy and its correlation with serum hydroxymethylglutaryl-CoA reductase enzyme levels in naïve dyslipidemic patients. *Indian Heart Journal*, 70, S64-S67.

Kapur, A., Rehan, H.S. (2019). Drug Reaction with Eosinophilia and Systemic Symptoms Syndrome associated with Ethambutol use: A Case Report, *Current Drug Safety*, doi: 10.2174/1574886314666190307150757.

Rehan, H.S., Goyal, N. (2018) Journey of Marketed Unapproved Drugs in the United States. *Journal of Rational Pharmacotherapeutics and Research*, 4 (1), 7-11.

Rehan, H. S., Banerjee, I., & Arora, T. (2018). Does Uniformity Exist In Present MD Pharmacology Curriculum In India?. *Journal of Rational Pharmacotherapeutics and Research*, 4 (2).

Rehan, H. S., Maini, J., & Hungin, A. P. (2018). Vaping versus smoking: A quest for efficacy and safety of e-cigarette. *Current Drug Safety*, 13(2), 92-101.

Sharma, M., Pathania, O. P., Kapur, A., Thomas, S., & Kumar, A. (2018). A randomised controlled trial of excision versus invagination in the management of indirect inguinal hernial sac. *The Annals of The Royal College of Surgeons of England*, 101(2), 119-122.

Solanki, B., Prakash, A., Rehan, H. S., & Gupta, L. K. (2019). Effect of inhaled corticosteroids on serum periostin levels in adult patients with mild-moderate asthma. In *Allergy & Asthma Proceedings*, 40 (1), 32-34.

#### **Journals (Published/ Teachers as editorial board members)**

Journal of Indian Society of Rational Therapeutics (Volume 4:2 issues) ISSN: 2394-0064

#### **Seminar/ conference: (National/ International) (Selected)**

Harmeet Singh Rehan

Delivered lectures on Pharmacovigilance and Adverse Drug reaction-Nurses Role in workshop on the Road to Excellence in Nursing Practice organised by CNE cell, KSCH. Apr., 2018.

Delivered a Lecture on “Drugs causing Dyslipidemia” in Lipidology Certification course conducted by the Lipid Association of India and International Atherosclerosis Society held at Radisson Blu, Dwarka, Delhi. Aug., 2018.

Delivered a talk on “Lifestyle intervention in Dyslipidemia” in Symposium held at Jaipur organised by Metabolic and Molecular Research Society, Jaipur, Aug., 2018.

Delivered a talk on “Role of Pharmacy in patient safety” in PharmaMediconat Karnool, Telangana Aug. 2018.

Delivered a lecture on “The principles of ethics in Medical Research” in Dr. Harmeet Singh Rehan symposium organised by Government Institute of Medical Sciences, Greater NOIDA Sept.ember, 2018.

#### **Faculty Strength:11**

#### **Other Significant information**

1<sup>st</sup> Prize in Quiz held at Workshop on Essentials of Clinical Research in New Delhi Sept., 2018.

3<sup>rd</sup> Prize in Quiz held at Annual National Conference of Indian Society for Rational Pharmacotherapeutics (ISRPTCON) at IGIMS, Patna Nov., 2018.

First prize in ‘National Pharma quiz-2018’ held in PGIMER Chandigarh. Dec., 2018.

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### **PHARMACOLOGY (MAMC)**

#### **Major activities and achievements**

The Department of Pharmacology aims to provide a holistic, education experience for MBBS, BDS and post graduate students in Pharmacology. Towards which the teaching learning activities are being continuously monitored and improved upon. New learning activities involving students active engagement were introduced in both the MBBS and MD program of the Department. To promote rational use of medicines in Delhi Government health facilities, the Department conducted the 4th CME and workshop on

“Improving availability and rational use of medicines” for doctors working in health facilities under Government of NCT of Delhi. The Department is a recognised Adverse Drug Reaction monitoring center for the National Pharmacovigilance Programme of Government of India. To that end to increase awareness about pharmacovigilance 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 functioning Animal House approved by CPCSEA.

### **Honors & Distinctions**

Dr. Vandana Roy

Member of National Academy of Medical Sciences.

International certificate on Principles of Bioethics & Human Rights of the UNESCO Universal Declaration on Bioethics & Human Rights. UNESCO Chair Bioethics Haifa, Department of Education, May-August 2018.

Appointed as Dean, Faculty of Medical Sciences, University of Delhi.

Invited as the Chief Guest, 4th Dr. V.K. Vijayan Oration. Vallabhai Patel Chest Institute, University of Delhi, Delhi. Oct., 2018.

### **Publications**

Aggarwal, M., Chawla, S., Singh, K., & Rana, P. (2018). Evaluation of Anticancer Drug Utilization and Monitoring of Adverse Drug Reaction in the Indoor Patients Receiving Cancer Chemotherapy in a Tertiary Care Hospital in New Delhi. *Journal of Basic and Clinical Pharmacy*, 9(2).

Agrawal, M., Roy, V. (2018). Engaging with Pharmacology: An experiment invoking student interest. *Journal of Rational pharmacotherapeutics & Research*, 4(2), 31-34.

Chabra, N., Roy, V. (2018). Overview of Qualitative Research. *Journal of Research in Medical Education & Ethics*, 8, S30-39.

Dutta, S., Chawla, S., Srivastava, S., Lamba, P., Roy, V. (2018). Effect of Trimethoprim-sulfamethoxazole vs norfloxacin on faecal E.coli resistance pattern and efficacy in patients receiving prophylaxis for spontaneous bacterial peritonitis. *Journal of Basic & Clinical Pharmacology*, 7, 2209-15.

Dutta, S., Chawla, S., Srivastava, S., Loomba, P., & Roy, V. (2019). Prevalence of impaired renal function in patients of liver cirrhosis with or without spontaneous bacterial peritonitis. *Journal of Drug Delivery and Therapeutics*, 9(1-s), 286-289.

Dutta, S., Chawla, S., Kumar, S. (2018). Psoriasis: A Review of Existing Therapies and Recent Advances in Treatment. *Journal of Rational Pharmacotherapeutics and Research*, 4(1), 12-23.

Dutta, S., Chawla, S., Srivastava, S., Lamba, P. (2018). Spontaneous bacterial peritonitis: A review, 04(11), 3872-3876.

Dutta, S., Chawla, S., Banerjee, S. (2018). Pharmacovigilance in India: Need of the hour. *Acta Scientifica Medical Sciences*, 2(8), 98-100.

Jain, A., Kalra, B. S., 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), 39-43.

Juneja, S., Chawla, S., Kanwar, A., Aggarwal, A. (2018). A survey of knowledge and beliefs about antimicrobial use among prescribers in teaching tertiary care hospital. *Journal of Medical Sciences and Clinical Research*, 6(3), 642-647.

Kumar, S., Tekur, U., Singh, B., Kumar, D. (2018). Mefenamic acid and diclofenac in the treatment of menorrhagia and dysmenorrhea in dysfunctional uterine bleeding: a randomized comparative study. *International Journal of Basic & Clinical Pharmacology*, 7, 1905-11.

Kumar, S., Chawla, S., Dutta, S. (2018). Biobetters: Betting on future. *Journal of Rational Pharmacotherapeutics and Research*, 2018, 4(2). 13-21.

Minhaj, M. A., Chawla, S., Lote, V. B., Ahuja, A. (2018). Pharmacological evaluation of glimepiride for diabetes mellitus and associated complication in rats. *World Journal of Pharmaceutical Research*, 7(6), 341-351.

Rana, P., Chawla, S. (2018). Orphan drugs: Trends and issues in drug development. *Journal of Basic and Clinical Physiology and Pharmacology*, 29(5), 437-446.

Rana, P., Roy, V., & Ahmad, J. (2018). Drug-induced optic neuropathy in a case of extensively drug-resistant pulmonary tuberculosis. *Journal of basic and clinical physiology and pharmacology*, 30(1), 139-140.

Roy, V., Rana, P. (2018). Generic Prescribing: All in a name. Viewpoint. *Indian Journal of Medical Research*, 147, 442-444.

Singhal, S., & Roy, V. (2018). Awareness, practice and views about integrating AYUSH in allopathic curriculum of allopathic doctors and interns in a tertiary care teaching hospital in New Delhi, India. *Journal of integrative medicine*, 16(2), 113-119.

Vikramjeet, S., Angelika, B., & Nishtha, M. (2019). Norfloxacin Induced Recurrent Fixed Drug Eruption in a self Treated Adult Female Patient-A Case Report. *Current Drug Safety*, 14(1), 72-76.

#### **Number of Department teachers serving as Editor(s)/ Member(s) of Editorial board – 2**

#### **Research projects**

Delhi State TB Office, Year: 2017 -2-19 onwards, Title: To evaluate co morbid depression in newly diagnosed patients with tuberculosis in the DOTS clinic of LN Hospital, 5 Lakhs Dr. Vandana Roy, Dr. Proteesh Rana, Dr. Seema Kapoor, Dr. Ashwini Khanna

Government of NCT Delhi under strengthening of Medical research at MAMC, Year 2018 onwards. Title- Ameliorative effect of thymoquinone against colistin induced renal injury. Rs 1.5 Lakhs. Dr. Vandana Roy

Government of NCT Delhi under strengthening of Medical research at MAMC, Year 2018 onwards. To study neuroprotective effect of Zingiber officinale (Ginger) in Aluminium Chloride induced Alzheimer's disease in rat model . Rs 1.5 lakhs .Dr. Vandana Tayal, Dr. Vandana Roy

#### **Conferences organized**

4<sup>th</sup> CME workshop on “Improving Availability and Rational use of Medicines in Public Health Facilities under Government of NCT Delhi”, in MAMC for doctors working in Delhi Government hospitals, 19<sup>th</sup> - 22<sup>nd</sup> Feb 2019.

7<sup>th</sup> CME and workshop on “Pharmacovigilance for patient safety”, 27<sup>th</sup> Mar., 2019, MAMC.

1<sup>st</sup> CME and workshop on “Pharmacovigilance for our safety” for Nurses working in associated hospitals of MAMC, MAMC. 3<sup>rd</sup> Aug., 2018.

Vandana Roy Chaired and Coordinated the cultural festival “MAMC SPIC MACAYVIRASAT 2018. This was organized in collaboration with Society for Promotion of Indian Classical Music, Art and Culture Amongst Youth. The week long festival was held from 2<sup>nd</sup> to 8<sup>th</sup> Apr. 2018.

#### **Seminar/Conference Presentations**

Vandana Roy

Invited as a speaker to conduct session on Prescription Audit, Delhi State Health Mission, in Training program on infection control, patient safety and audits - National Quality Assurance Standards, for medical officers, nursing officers and other staff of Delhi Government hospitals and MCD hospitals. Quality Assurance Cell, Delhi State Health Mission, VikasBhavan, Delhi, Nov., 2018.

Invited as a guest speaker to deliver a talk on Translational Medicine: towards a widening context and enabling ecosystem in India. National Conference on Current trends in Translational Medicine and Pharmacovigilance: Stress on skill development. Organized by Department of Pharmacology, School of Pharmaceutical Education and Research. Jamia Hamdard University. New Delhi Oct., 2018.

Invited as a Resource speaker in 9th Pharmacovigilance program in “Basics and Regulatory Aspects of Pharmacovigilance-optimizing patient safety is our goal. Skill development program. Organized by Indian Pharmacopoeia Commission, National Coordination Center, Pharmacovigilance Program of India. Ministry of Health & Family Welfare, Government of India. May, 2018.

Dr Shalini Chawla

Delivered a lecture at conclave on developing a clean sports ecosystem: Athlete perspective on antidoping on “Management of Therapeutic Use Exemption”. June, 2018

Delivered a lecture at “workshop and training for NABH accreditation of IEC members at MAX Vaishali, on “Composition of IEC”. July, 2018

### **Placement Details**

Number and percentage of students placed – 2 out of 2 MD candidates joined Academic Institutes, 100% placement.

### **Extension and Outreach activities**

The Department is preparing a program to sensitize & train all nurse working in hospitals attached to the college in pharmacovigilance. Initially it is being proposed to train nearly 1600 nurse will be trained.

### **Health Services to the Community**

The Department is conducting programs related to improving safe and rational use of medicines for the community. These include

#### Monitoring of Adverse Drug Reactions

The Department has reported 456 Individual case Safety Reports (ICSRs) to the National Pharmacovigilance Centre for reporting to the International Centre for Pharmacovigilance at Uppsala, through Vigibase in 2018. The total number of Adverse drug reactions (ADR) reported since September 2014 till December 2018 is 1400. The department conducted 2 workshops on Pharmacovigilance for patient safety in 2018 and has trained 372 participants which include, doctors, nurses and pharmacists. Department has also trained 300 undergraduate MBBS and BDS students in pharmacovigilance and ADR reporting.

#### Improving availability & rational use of medicines in public health facilities

Every year the Department organizes a workshop on the theme “Improving availability and Rational use of medicines in public health facilities”, training doctors working in Delhi Government Hospitals on aspects related to improved selection, prescribing and rational use of medicines. This will help them manage medicines better. Such training if implemented in practice will result in improved access to essential medicines and their safe use for the community in public health facilities. In the year 2018, 65 doctors attended the workshop from 30 different hospitals of Delhi Government. Overall 132 doctors, 13 nurses and pharmacists have been trained in this regard since 2016.

### **Faculty strength**

6

### **Any other significant information**

In Research the following research papers received awards

V. Singh, V. Roy. First prize - Scientific paper entitled “Prescribing in geriatric inpatients: evaluation of drug utilization, expenditure incurred, appropriateness and adverse drug reactions” in Annual National Conference of Indian Society for Rational Pharmacotherapeutics ISRPTCON held in IGIMS, Patna, Nov., 2018

V.Singh, V.Roy, M.K. Daga..Third prize-for oral presentation on original research article titled “Prescribing in geriatric patients: a pharmaco-economic perspective” at Golden jubilee meet for Indian journal of pharmacology and Indian pharmacology society meet (IPS-IJP golden jubilee celebration) held in PGI Chandigarh. Dec., 2018.

A. Bansal, V.Roy.Scientific paper entitled “Patients knowledge of prescribed medications and factors affecting it in a tertiary care teaching hospital” was given the first prize at Medicus Conventus 2017-The annual Lady Hardinge Medcial College conference. New Delhi. June , 2018.

I Haque, Kavita, V. Roy First prize: Scientific paper entitled Challenges and possibilities in treatment of Parkinson’s disease: a review Physiology Symposium . Organized by Department of Physiology, Maulana Azad Medical college, New Delhi Feb., 2019.

R Gehlot, Angelica, V. Roy. Second prize: Scientific paper entitled Physiology-Pharmacology Interface: Targets In Treatment Of Parkinson’s Disease. Physiology Symposium on Organized by Department of Physiology, Maulana Azad Medical college, New Delhi Feb., 2019.

V Babasaheb Lote , V. Roy. Second prize : Sulfinamide: advantages & disadvantages. Physiology Symposium on Organized by Department of Physiology, Maulana Azad Medical college, New Delhi .Feb., 2019 .

### **Faculty members were invited as Subject experts , members of other committees**

Vandana Roy

Invited in Expert Consultation meeting on Treatment efficacy of antimalarial drug resistance. Organized by WHO Country India Country Office & National Vector Borne Disease Control Program, Ministry of Health & Family Welfare, Government of India. Metropolitan Hotel, August 30th, 2018; Made Executive Member of Delhi Pharmacological Society; Expert member Technical Specification Committee for finalizing the specification of equipment, kits and drugs for National Viral Hepatitis Control Program, Ministry of Health & Family Welfare, Government of India, 2018 ; Subject Expert of New Drug Advisory Committee (NDAC) to advise Drugs Controller General (India), DCGI in matters for review of Applications of New Drugs and Clinical Trials, Central Standards Control Organization, FDA Bhawan,New Delhi ; Expert to review project for Research Council of Kerela State Council for Science, Technology and Environment ; Expert Member, Committee for assessing costly medicines in prescription audit, Ministry of Health & Family Welfare, Government of NCT of Delhi, October 2018. ;Member, Patient and Staff Safety Group, Delhi State Health Mission,Ministry of Health & Family Welfare, Government of NCT of Delhi. August 2018 ; Member State Technical Advisory Committee for Immunization, Delhi State, Ministry of Health & Family Welfare, Government of NCT of Delhi. 2018 ; Member State Task Force Tuberculosis , Delhi.; Dean, Faculty of Medical Sciences, University of Delhi August 2018- Oct 2019.; Chairperson , Board of Research Studies, Faculty of Medical Sciences, University of Delhi ; Member of Executive Committee , University of Delhi, July 27th 2018- Jan 2019; Member, Academic Council, University of Delhi, July 27th, 2018- July 2021; Member Governing Body, Vallabh Bhai Patel Chest Institute, University of Delhi, July 2018- Oct 2019; Member Governing Body, University College of Medical Sciences, University of Delhi (2018- Oct 2019) ; Member Committee for Annual Report of University of Delhi August 2018; Member Scientific Advisory Committee, VP Chest Institute, University of Delhi.; Member Advisory Committee of College of Nursing, Army Hospital (R & R), 2018-; Chairperson, Committee for inspection of Raj Kumari

Amrit Kaur Nursing Hospital, 2018 ; Chairperson, Fact Finding Committee to examine complaint against a faculty member, University of Delhi, 2018.; Chairperson, Screening Committee for placement of an Assistant Registrar in senior scale, University of Delhi, 2018.

Member, Interim Committee on Health, World University Service (WUS), University of Delhi (2018-); Co Chairman, Committee to purchase medicines for health centers, World University Services, University of Delhi, 2018; Member, Committee for empanellment of hospitals, health centres, diagnostic laboratories, , University of Delhi, August 2018.

Head, Department of Pharmacology, University of Delhi ; Head, Courses Committee for Pharmacology, University of Delhi; Head Department Research Studies, Pharmacology, Faculty of Medical Sciences, University of Delhi ; Member Executive Committee, Delhi Medical Council ; Member Institute Ethics Committee of Pandit Deendayal Upadhyaya National Institute for Persons with Physical Disabilities ( Divangyan)( 2018-)

Member of Subject Expert committee (SEC) constituted by DCGI to to advice drugs Controller General India, in matters related to approval of (a) Clinical trials (b) New drugs and (c) New medical devices.

Member Screening Committee & Committee for finalization of specification of equipment items & e tender document for procurements of non consumables/equipments for the different departments of MAMC college; Chairperson and Convener, Dissection Monitoring Committee for Maulana Azad Medical College ; Chairperson & Coordinator, Maulana Azad Medical College Committee for Pharmacovigilance ; Coordinator for Adverse drug Monitoring Center, Maulana Azad Medical College, National Pharmacovigilance Program of India ; Chairperson & Faculty Coordinator of MAMC- SPIC MACAY committee( Society for Promotion of Indian Classical Music, Arts and Culture Amongst Youth) (2005- till date)

Member Secretary, Drugs & Therapeutics Committee, Lok Nayak Hospital, New Delhi

Member Core Committee of Revised National Tuberculosis Control Program RNTCP, Maulana Azad Medical college ; Head, Central Animal House , Maulana Azad Medical college; Officer Incharge , Lecture theatres, Maulana Azad Medical college.

Shalini Chawla is Member Secretary for Institutional Animal Ethics Committee of MAMC and Associated Hospital; Member, Institutional Ethics Committee, MAMC & Associated Hospitals. ; Member of Serious Adverse Event(SAE) Committee, MAMC & Associated Hospitals; External Expert for conducting the Annual Assessment Promotion Scheme of faculty of JIPMER for promotion to their next level from the department of Pharmacology; Expert Member of Gazette notified Scientific Panel for pesticides and Antibiotic Residues constituted by FSSAI.; Member of Subject Expert committee (SEC) constituted by DCGI to to advice drugs Controller General India, in matters related to approval of (a) Clinical trials (b) New drugs and (c) New medical devices; Member of Therapeutic Use Exemption Committee (TUEC), National Anti-dope Agency, CGO complex ,New Delhi; Member of expert committee on registration of Biopesticides ; Member of Courses Committee, Department Of Pharmacology, Delhi University; Member, Institutional Ethics Committee, Action Balaji; Member, Institutional Ethics Committee, Indian Fertility Society, Delhi; Expert for the Technical Committee constituted for the supervision and monitoring of conduct of clinical trials in the country by DGHS.

Expert for the Technical Committee constituted to discuss issues relating to drug substitution and make recommendations in the country by DGHS; Expert for Adhoc Codex Intergovernmental Task Force on Antimicrobial Resistance (TFAMR) constituted by FSSAI ; Member of CSIR SRF/RA Selection Committee Meeting in the area of “Medical & Pharmaceutical Sciences (MEDIC-11)” CSIR Complex, Library Avenue, Pusa, New Delhi – 110 012”. March 2018 ; Member of the Board of Studies (BOS) for Pharmacology at Hamdard Institute of Medical Sciences, (HIMSR), Jamia Hamdard, New Delhi. ; Expert for confidential meeting scheduled to be held in the Commission from 11 to 13 June, 2018 in Room No 303-A, 3rd Floor, Ayog Sachivalaya Building, Shahjahan Road, New Delhi.

Dr Bhupinder Kalra is Member, Purchase Committee, Maulana Azad Medical College; Member, Institutional Animal Ethics Committee, Maulana Azad Medical College;

Member, College Condemnation and auction committee, Maulana Azad Medical College;

Member, Curriculum Committee, Faculty of Medical Sciences, University of Delhi

Dr Vandana Tayal is Member Secretary of Pharmacovigilance Committee of MAMC & Associated hospitals; Member Secretary of Pharmacovigilance Committee for training Nurses; Member Secretary, Dissection Monitoring Committee for Maulana Azad Medical College

#### **New facilities added**

The department is undergoing major renovation of laboratories, seminar rooms, resident rooms, faculty rooms and toilets. A new Post graduate Laboratory was made functional in the year 2018. New equipment for the same has been procured. The laboratory for experimental research is being upgraded.

Two more new laboratories- Pharmacogenomic and Chromatography laboratory are in process of being prepared. New furniture and equipment for the same are being installed.

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### **PHARMACOLOGY (VPCI)**

#### **Major Activities and Achievements**

The Department of Pharmacology is involved in teaching and research of postgraduate (MD)/doctoral (PhD) students of Pharmacology, Vallabhbai Patel Chest Institute (VPCI), University of Delhi. In research, we pursue various research projects, some of which are aimed at obtaining MD and PhD degrees, and some are research projects in the area of pharmacoepidemiology, population medicine for improving the access of medicines and containment of antimicrobial resistance. Most of the research projects are extramurally funded and few are multi-disciplinary in collaboration with other research institutes.

#### **Publications**

Babita, Gulati, K., Ray, A., Menon, B. K., Rajkumar. (2018). A Clinical Study to Evaluate the effects of adjunct Yogic Intervention on Pulmonary Functions in Patients of Bronchial Asthma. *Journal of Clinical Investigation and Studies*, 1(3), 1-4.

Chaudhary, S., Gulati, K., Rai, N., Ray, A. Anti-inflammatory and immunomodulatory effects of Albizialebeck in experimental model of bronchial asthma. *International Journal of Chronic Diseases*, 60, 147-152.

Dubey, H., Gulati, K., & Ray, A. (2018). Amelioration by nitric oxide (NO) mimetics on neurobehavioral and biochemical changes in experimental model of Alzheimer's disease in rats. *NeuroToxicology*, 66, 58-65.

Gulati, K., Rai, N., & Ray, A. (2018). Status of Research in Respiratory Pharmacology in India during the last five years (2012-2017). *Proceedings of the Indian National Science Academy*, 84(1), 55-72.

Gulati, K., & Reshi, M. R. (2018). Hepatotoxicity: Its Mechanisms, Experimental Evaluation and Protective Strategies. *American Journal of Pharmacology*, 1(1), 1004.

Gulati, K., Rai, N., Naqvi, M., Ray, A. (2018). Protective role of herbal drugs against stress induced immunosuppression and the possible mechanism. *EC Psychology and Psychiatry*, 7(7), 370-376.

Holloway, K. A., Kotwani, A., Batmanabane, G., Santoso, B., Ratanawijitrasin, S., & Henry, D. (2018). Promoting quality use of medicines in South-East Asia: reports from country situational analyses. *BMC Health Services Research*, 18(1), 526.



Pal R, Gulati K, Banerjee BD, Ray A. Protective effects of melatonin in endosulfan induced immunomodulation and their association with oxidative stress markers in rats. *The Indian Journal of Experimental Biology*, 56, 725-733.

Naqvi, M., Rai, N., Gulati, K., Ray, A. (2018). Experimental studies to evaluate the immunomodulatory and anti-inflammatory potential of optimized polyherbal preparations in experimental model of asthma. *Global Vaccine and Immunology*, 3(1), 1-5.

Thokchom, S. K., Gulati, K., Ray, A., & Menon, B. K. (2018). Effects of yogic intervention on pulmonary functions and health status in patients of COPD and the possible mechanisms. *Complementary Therapies in Clinical Practice*, 33, 20-26.

Ray, A., Gulati, K., Thokchom, S. K., & Rai, N. (2018). Immunopharmacology research including vaccines in India (2012-2017). *Proceedings of the Indian National Science Academy*, 84(1), 169-183.

Singh, A., Gulati, K., Chhabra, S. K., Dubey, H., Kalaiselvan, V., & Ray, A. Aggravation of Seizure after Combined Nebulisation with Albuterol and Ipratropium Bromide. *J Pharmacol Clin Res*, 6(2), 001-002.

### **Research Projects**

Dr. Anita Kotwani

DBT, 2018-2021, “Smart regulation of antibiotic use in India: Understanding, innovating and improving compliance” Multi-disciplinary project under India-UK collaboration for containment of AMR, 136.988 lakhs.

Dr. Kavita Gulati

AYUSH, 2015-2019, “A clinical study to evaluate the effects of yoga on pulmonary functions, cellular and molecular markers and quality of life in patients of bronchial asthma, 37 lakhs.

CCRUM, 2017-Ongoing, “Experimental studies on the hepato protective and immunomodulatory effects of Dawa-UI-Kurkum, a polyherbal Unani preparation, and its cellular and molecular mechanisms, in rats”, 60 lakhs.

NIF, 2016-2018, “Pharmacological studies to validate the effects of traditional herbal preparations in experimental models of bronchial asthma in experimental animals, 14.5 Lakhs.

NIF, 2017-2018, “Experimental studies to evaluate the mode of action of traditional herbal agents in bronchial asthma, 18.55 Lakhs.

AYUSH, 2018-Ongoing, “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)”, 39.77 lakhs.

### **Seminar/Conference Presentations (National / International)**

Anita Kotwani

Invited to participate in the Fifth Global Symposium on Health Systems Research held in Liverpool, UK Speaker for one of the Session on Engaging with Private providers in Low and Middle Income Countries – Strengthening Quality of Care and Effective Regulations. Oct., 2018.

Invited as a speaker “Need for smart regulations in antibiotic use” by Prof. and Head Department of Infectious Diseases and Chair of Antimicrobial Stewardship Program of Christian Medical College, Vellore to participate in their quality circle meeting to be held on Dec., 2018.

Invited by organizers of 70th IPC conference to speak during AMR symposium on “Antimicrobial Resistance and Smart Regulation of Antibiotic Use” December 21, 2018.

Kavita Gulati

Delivered a lecture on “Role of immune system during stress-induced gastric ulcerogenesis: strategies for gastric cytoprotection” in an GI-Symposium organized by ISCTICO, IUPHAR-GI, , Kyoto, Japan. June, 2018.

Guest lecture on “Yogic intervention in the management of bronchial asthma” in a symposium on Recent Trends in Pharmacology Research organized by Delhi Pharmacological Society at Symposium, AIIMS, New Delhi, Dec., 2018

#### **Other inter-Institutional Collaboration**

Dr. Anita Kotwani

Collaborated project with Centre for Disease Dynamics and Economic Policy & Amity University and National Institute of Animal Biotechnology.

#### **Placement Details (Number and percentage of students placed)**

Dr. Tapan Behl – Associate Professor, Department of Pharmacology, Chitkara College of Pharmacy, Chitkara University, Punjab.

Dr. Harikesh Dubey – Placed at Accredited Consultants Pvt. Ltd., Delhi.

Dr. Nishant Rai – Placed at BVG Life Sciences Ltd., Pune.

Dr. Ravinder Yadav – Placed at Dr. Reddy’s Lab., Delhi.

Dr. Gautam Arora – Placed at Abbott India Ltd., Delhi.

#### **Number of MD/Ph.D. Degree Awarded**

PhD: 4

Awarded: 2

#### **Faculty Strength**

Three: 2 Professors and 1 Assistant Professor

#### **Other Significant information**

Dr. Anita Kotwani Member of the advisory group on “Fair Medicine Pricing Forum” of World Health Organization (WHO). Participated the meeting held in March 2019 at Johannesburg, South Africa.

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### **PHYSIOLOGY (LHMC)**

#### **Major Activities and Achievement**

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 parameters including P300, Nerve conduction, Cognitive Function, Pulmonary Function Test 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. The Department of Physiology has successfully organized the 4th Intercollegiate Undergraduate Physiology Quiz Competition in which fifteen Medical Colleges have participated from Delhi NCR region. Since its establishment the Yoga & Lifestyle intervention Centre in the department of Physiology, has come a long way, where patients suffering from various ailments are being benefited by attending the yoga practices in the center. A number of medical students, doctors & nursing

staff as well as patients are also availing the facilities of the center. In collaboration with the above Centre the department has organized & celebrated International Yoga Day on 21ST June 2018 and International Naturopathy day on 16th November 2018.

### **Publications**

Adlakha, M., Gautam, S., Mondal, S., Singh, R., Chauduary, D., Gandhi, A. (2018). Pulmonary functions in patients of bronchial asthma and its association with inflammatory marker (hs-crp). *International Journal of Scientific Research*, 7(8), 89-91.

Bhardwaj, S., Mondal, S., Bandhu, R., Malik Debnath, E., Chaudhury, D. (2018). Nerve Conduction velocity and glycated haemoglobin in patients of type 2 Diabetes *International Journal of Scientific Research*, 7(7), 71-73

Bhardwaj, S., Mondal, S., Bandhu, R., Chaudhury, D., Malik Debnath, E. (2018). Correlating Nerve Conduction Velocity and Duration of type 2 diabetes mellitus : a study done in north Indian population, in a tertiary care hospital. *International Journal of Medical Science and Innovative Research*, 3(4), 35-40.

Dogra, P., Mondal, S., Bandhu, R., Kataria, D., Ramesh, V. OS , Adlakha M. (2018). HRV in Attention-deficit/hyperactivity disorder (ADHD) before and after Methylphenidate. *International Journal of Scientific Research*, 7( 3), 14-15.

Dogra, P., Bandhu, R. , Mondal, S., Kataria, D. , Ramesh, V. OS. (2018). Autonomic functions in Attention-deficit/hyperactivity disorder (ADHD) before and after Methylphenidate. *IOSR-Journal of Dental and Medical Sciences (ISOR-JDMS)*, 17( 6 ), 01-04.

Dogra, P., Mondal, S., Bandhu, R., Kataria, D. , Ramesh, V. OS. (2018). Correlation between conner's parent rating score and HRV in ADHD children treated with methylphenidate. *International Journal of Dental and Medical Sciences Research* , 2018; 2( 6): 44-49.

Dogra, P., Mondal, S., Bandhu, R., Kataria, D. , Ramesh, V. OS. (2018). Correlation between the HRV Vanderbilt parent rating score in children treated with methylphenidate. *International Journal of Scientific Research*, 7 ( 7 ), 177-178

Dogra, P., Mondal, S., Bandhu, R. , Kataria, D. .Ramesh, V. OS. Cardiovascular effects of methyphenidate in children with Attention deficit hyperactivity disorder (ADHD). *JMSCR*, 6(6 ) , 227-230.

Dogra, P., Mondal, S., Bandhu, R. , Kataria, D. , Ramesh, V. OS. (2018). Correlation between Vanderbilt parent rating scale and autonomic functions in ADHD before and after methylphenidate. *Scholars Journal of Applied Medical Sciences*, 6(7), 2669-2673.

Dogra, P., Bandhu, R. , Mondal, S., , Kataria, D. , Ramesh, V. OS(2018). .Efficacy and tolerability of methylphenidate in attention deficit hyperactivity disorder (ADHD): A12 week prospective study. *IOSR Journal of Dental and Medical Sciences (iosr-jdms)*, 17( 7 ), 17-19.

Dogra, P., Mondal, S., Bandhu, R. , Kataria, D. , Ramesh, V. OS. (2018). Correlation between Conner's parent rating scale and autonomic functions in ADHD before and after methylphenidate. *Journal of Medical Science and Clinical Research*, 06(06), 959-963.

Kahlon, M., Gandhi, A., Mondal, S., & Narayan, S. (2018). Simple tests for assessing the autonomic status in iron deficient anemic adolescent girls. *International Journal of Physiology*, 6(4), 43-47.

Kukreja, A., Boinapalli, S., Chouhan, S. S., &Kanojia, S. (2018). A Comparison between Traditional and Modified Case Based Method for Learning Physiology in First MBBS Students. *International Journal of Physiology*, 6(2), 1-4.

Laxmi S, Gautam S, Gandhi A, Chaudury D, Goswami B, Mondal S, Monga M. (2018). Association between nerve conduction velocity with insulin resistance in prediabetics and healthy controls. *International Journal of Scientific Research*, 7(8), 25-27.

Manawat, R. (2018). Effect of six-minute walk test in obesity. *International Journal of Medical Science and Public Health*, 7(4), 260-263.

Namita, Bandhu R, Gautam S, Chaudhary D, Mondal S, Monga m.(2018). Cognitive function assessment in mild to moderate COPD patients through p300, ERP study. *Global journal for Research Analysis*, 7(8), 35-38.

Praveena, S. M., Asha, G., Sunita, M., Anju, J., & Ratna, B. (2018). Yoga offers cardiovascular protection in early postmenopausal women. *International Journal of Yoga*, 11(1), 37-43.

### **Journals**

Dr. Rajiv Bandhu : Advisory board member of international journal of physiology.

Dr. Gaurav Swami: Member of editorial board journal of clinical diagnosis and research.

### **Research Projects**

DST project, Effect of integrated yogic intervention on autonomic functions, neurophysiological functions and psychological parameters in caregivers of persons with mental illness. A Randomized controlled trial; PI- Dr. Sujata Gautam.; CO-PI Dr. Sunita Mondal , Dr. Mary Vibha Lakra

ICMR, 2018, Cognitive Function in School Going Adolescents using Smartphones: A Preliminary Study, PI-Dr. Mary Vibha Lakra.

ICMR, 2018, Assessment of Heart Rate Variability in Controlled and Uncontrolled cases of Diabetes Mellitus type-2 and its correlation with Hb A1c. PI-Dr Sujata Gautam

ICMR, 2018, to study the effect of smartphone use on sleep quality and autonomic function in college going females. PI-Dr. Madhulika Monga.

ICMR, 2019, Effect of Cold Pressor Test on Heart Rate Variability and their correlation with perceived stress in young adults of type A and type B personality. PI- Dr. Sujata Gautam

### **Seminar Organized**

International Yoga Day in Lady Hardinge Medical College, New Delhi 21st Jan., 2018.

Launch of “Student Mentorship Programme” for MBBS Batch 2018-19, Septe., 2018.

Deptt of Physiology in collaboration with Yoga Therapy Department organized the First Naturopathy day ,6th Nov., 2018.

### **Seminar Conference Presentations (National/International) (Selected)**

Dr. Sunita Mondal delivered guest lecture on “Delving into the stress response: HTPA axis, Nutrition and Exercise” MAMC, New Delhi. Nov., 2018.

### **Faculty Strength: 10**

### **Other Significant Information**

Ms Harsha Patnaik 3rd year MBBS Student won first prize in poster presentation “Effect of Glycemic Control on Heart Rate Variability in cases of Diabetes Mellitus type 2”, in Medicus Conventus 2019, LHMC, New Delhi.

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## PHYSIOLOGY (MAMC)

### Major activities and achievements

The Department of Physiology is concerned with teaching, research and administrative works. Students of MBBS, BDS, Nursing and MD are taught. The department co-ordinates the internship programme of the institute for MBBS students.

### Publications

Mahajan, A. S., Mahaur, R., Singh, T., Jain, A. K., Dhanwal, D. K., & Gupta, M. (2018). Haemostatic functions and metabolic profile of subclinical hypothyroid and hypothyroid patients. *Bangladesh Journal of Medical Science*, 17(4), 532-536.

Mahadule Ashwini A, Jain Preeti, Jain AK. (2018) Assessment of cognitive performance in practitioners of short and long term Rajyoga meditation. *International Journal of Science and Research*, 7(7),269-272.

Jain Preeti, Mahadule Ashwini A. (2018).Assessment of physiological and psychological well-being in practitioners of Rajyoga meditation. *International Journal of Science and Research*, 7(8), 37-39.

Sinha SS, Jain AK, Tyagi S, Mahajan AS.(2018) Effect of meditation on heart rate, blood pressure and exercise performance in coronary artery disease patients. *Indian Journal of Physiology and Pharmacology*, 62(2),209-16.

Varshney, V. P., & Bedi, M. (2019). Lacunae in Forensic Handwriting Examination: Scope for Exploitation. *MAMC Journal of Medical Sciences*, 5(1), 19.

### Conferences organized

Physiology Update 2018 “Delving into stress response: HTPA axis nutrition & exercise” MAMC. Nov., 2018 .

Second Intra-college Undergraduate Physiology Quiz”, 2019 at Dept of Physiology, MAMC, New Delhi, March. 2019.

**Faculty Strength:** 11

### Other Significant information

Dr. Aarti Sood Mahajan was Expert for faculty positions at BSA Medical college, Govt of NCT; Judge of Poster competition at APPICON –DC 2018 at VMMC on 8-9-18; Co-Chairperson College, Protocol committee for Medicine department; Co-convenor for regional centre, MAMC for CISP training program by MCI.

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## PHYSIOLOGY (UCMS)

### Major activities and achievements:

Upgradation of UG and PG labs.

### Honours/Distinctions

Dr. Satendra Singh awarded Shoorveer Award 2018 by Ample Mission in Mumbai for initiatives in disability sector on Aug., 2018.

### Publications

Goyal, S., Dixit, A., Vaney, N., & Madhu, S. V. (2018). Cognitive Status in Hypothyroid Patients Before & After Attainment of Euthyroid State. *Indian J Physiol Pharmacol*, 62(1), 113-119.

Khaliq, F., & Fahim, M. (2018). Role of Terminalia arjuna in improving cardiovascular functions: A review. *Indian Journal of Physiology and Pharmacology*, 62(1), 8-19.

Singh, S. (2019). Medical Council of India's new guidelines on admission of persons with specified disabilities: Unfair, discriminatory and unlawful. *Indian journal of medical ethics*, 4(1), 29-34.

### **Journals**

Dr. Khaliq, Farah, Associate Editor, *Indian Journal of Physiology and Pharmacology* 2017 – Till date

Dr. Singh, Satendra Editorial Board Member, *Indian Journal of Medical Ethics [PubMed]* 2019

Dr. Vaney, Neelam, Editor – *Indian Journal of Physiology & Pharmacology*, 2017-19

Dr. Vaney, Neelam Member, Advisory Board, *Indian Journal of Medical Specialties*, Delhi. 2018

### **Research Projects**

ICMR, 2017-18, Effects of mobile phone usage on cognition and sleep pattern in young adults, Rs 10000, Principal Investigator: Ramansh under Dr. Neelam Vaney

### **Seminars Organized**

Organised 'Disarming Dialogues: Teaching Ethics & Advocating for Change in Healthcare (DD-TEACH)' with Bucksbaum Institute for Clinical Excellence & University of Chicago Centre in Delhi, Oct., 2018.

Organised 'Disarming Dialogues: Stories of Professionalism & Ethics as an Approach to Knowing (DD-SPEAK)' with Bucksbaum Institute for Clinical Excellence & University of Chicago Centre in Delhi, Oct., 2018

International Yoga Day in collaboration with Yoga Laboratory, Department of Physiology, under AYUSH. 21st June 2018.

### **Seminars/conference Presentation ( International/National) ( Selected)**

Dr. Satendra Singh

Guest lecture on 'Adopting a universal design for enhancing community ambulation of people with disability' at School of Allied Health Sciences, Manipal University, Apr., 2018.

Invited talk on 'Value of Humanities in Medical Education' at Conceptz the Manipal Global Medical Education Conclave at KMC Manipal, Apr., 2018

Invited guest lecture 'Bridging the Divide: Khwaish-ae-Parwaaz' at REACH, the Equal Opportunity Cell of Lady Shri Ram College Apr., 2018.

Guest lecture on 'Stigma, Social Identity & Social Justice' at Festival of Ideas, Manipal Academy of Higher Education, Aug., 2018

Invited speaker at Youth Adda on Disabilities Act organized by AADI and DFID-UK Government at AADI, June, 2018.

### **Other Inter-Institutional Collaboration:**

Satendra Singh

Adjunct Faculty, Department of Medical Education, KMC Manipal Academy of Higher Education, 2018-20.

Faculty at 'Health, politics & the imagination in colonial & contemporary India' at Columbia Global Center, Mumbai, 18-19 Feb., 2019.

**Faculty Strength: 05**

### **Other significant information:**

Dr. Satendra Singh, Part of Social Media Accessibility discussion with Facebook accessibility team; Jury member at FISFA – International Short Film and Arts Festival organised during 15th World Rural Health

Conference at New Delhi, 26-29 Apr 2018; Member, Steering Committee to constitute Department of Disability at Government of Delhi, 2018-19; State Steering Committee on Accessible Election, Delhi Government (GNCTD), 2018-20; Committee to finalize Delhi Rights of Persons with Disabilities Rules 2018, Delhi Government, 2018; Committee to start Physical Medicine & Rehabilitation Departments in all three teaching hospitals under GNCTD, 2018-19; Executive Member & Ethics Committee member of Delhi Medical Council, 2015-20; Executive Member of Academy of Health Professions Education, 2017-19

Dr. Neelam Vaney: Head of Department of Physiology- Faculty of Medical Sciences, University of Delhi, 2017 – 2020.; Member, Advisory Board, Indian Journal of Medical Specialties, Delhi. 2018; Reviewer of STS projects, Indian Council of Medical Research, New Delhi., 2018; National Board of examinations, New Delhi., 2018

Dr. Asha Yadav Chairperson, Committee for the “Prevention of Caste Based Discrimination in Higher Educational Institutions” in UCMS 2017 onward.

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## 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 patients.

### Publications

Dogra, V., Menon, B. K., Bansal, V. and Gaur, S. N. (2018). To assess the correlates of respiratory morbidity related quality of life, using St George Respiratory Questionnaire (SGRQ) among male COPD patients. *Int J Adv Med*, 5(3),498-504.

Dogra, V., Menon, B. K., Bansal, V. and Gaur, S. N. (2018). Correlation between CT phenotypic patterns with clinical, nutritional and pulmonary function parameters among COPD patients. *Int J Res Med Sci*, 6(5),1770-1777.

Ramaswamy, S., Chhabra, S.K., Gupta, M., Dash, D. J. and Bansal, V. (2018). Salbutamol But Not Ipratropium Shifts Autonomic Balance Towards Sympathetic in Chronic Obstructive Pulmonary Disease. *Curr Respir Med Rev*,14(3), 166-71.

### Journals

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

DIPAS, DRDO; Sept. 2014 – 8th Sept. 2018, Development of Exercise Protocol to Improve Hypoxic Tolerance, Amount Sanctioned Rs. 50.00 Lakhs.

LSRB, DRDO; from 27th June, 2018 till 27th June, 2021, Cognitive performance after short duration sub-maximal exercise in young adults. Amount Sanctioned Rs. 26,59,329/-

### Inter-institutional collaboration

Defence Institute of Physiology and Allied Sciences, DRDO, Timarpur Delhi-110054

CSIR-IGIB (Institute of Genomics and Integrative Biology), Mall Road, Delhi-110007

### Faculty Strength: One

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## PAEDODONTICS & PREVENTIVE DENTISTRY (UCMS)

### Publications:

Gupta, R., Tyagi, N., Gupta, S., Tyagi, R. (2019). Large giant cell fibroma of the palatal mucosa presenting as pyogenic granuloma: A Rarity. *IOSR Journal of Dental and Medical Sciences*, 18(4), 69-72.

Kalra, N., Tyagi, R., Khatri, A., Kumar, S., Afsal, M. M., & Khandelwal, D. (2019). Neonatal molar in a child with Langerhan cell histiocytosis. *Journal of Indian Society of Pedodontics and Preventive Dentistry*, 37(1), 107.

Kalra, N., Tyagi, R., Khatri, A., Poswal, A., Panwar, G., & Garg, K. (2018). Double Lip-An Atypical Facial Anomaly: Two Case Reports. *International journal of clinical pediatric dentistry*, 11(5), 451.

Khandelwal, D., Kalra, N., Tyagi, R., Khatri, A., & Gupta, K. (2018). Control of anxiety in pediatric patients using «Tell Show Do» method and audiovisual distraction. *J. Contemp. Dent. Pract*, 19(9), 1058-1064.

Khandelwal, D., Kalra, N., Tyagi, R., Khatri, A., Kumar, D., & Kumar, S. (2018) Fragment Reattachment of Two Teeth in a 12-year-old Child-A. *International J of Oral Care and Research*, 6(1), 1-3.

Khatri, A., Beniwal, P., Kalra, N., & Tyagi, R. (2019). Dental and craniofacial anomalies associated with Axenfeld–Rieger syndrome. *Saudi Journal of Oral Sciences*, 6(1), 41.

Kumar, D., Kalra, N., Tyagi, R., Khatri, A., Khandelwal, D., Kumar, S. (2018). Oral health knowledge, attitude and practices in 6-12 yr old school going children of northeast Delhi. *International Journal of Clinical Preventive Dentistry*, 5(1), S12-15.

### Seminar/Conference Presentations(National/International) (Selected)

Dr. Rishi Tyagi presented a poster at 1st National conference of ISDT at New Delhi, Oct., 2018

Dr. Amit Khatri presented a paper on Prosthetic management of post-traumatic nasal obstruction using a custom made unilateral intranasal stent: A case report, at National Conference of ISPPD, Nagpur Oct. 2018.

### Faculty Strength: 04

### Other Significant information

Prof. Rishi Tyagi was appointed as Dental council of India inspector.

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## RADIOTHERAPY (MAMC)

### Major Activities and Achievements

Department initiated use of a the recently installed CT simulator and HDR brachytherapy machine enabling proper planning and brachytherapy for the cancer patients. MD Radiotherapy thesis was submitted and MD degree was successfully awarded to the two candidates appearing for the examination. Our students represented the Department at several conferences and won accolades for the Department (Winners of Case capsule organised by Max Hospital & won the Brachytherapy Quiz at the recent Brachytherapy workshop organised by Brachytherapy Society)

### Honours/Distinctions

Dr. Kishore Singh appointed as Medical Director L N Hospital, Delhi.

### Publications

Aggarwal, M., Aggarwal, A., Singh, K., Arora, S., Rathi, AK. (2019). 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*, 9 (4), 53-54.



Aggarwal, M., Aggarwal, A., Singh, K., Arora, S., Rathi, AK. (2019). Clinical and demographic presentation in patients diagnosed with pancreatic cancer at a tertiary care centre of north India. *International Journal of Scientific Research Indian*.8 (4), 50-51.

Arora, S.(2018). OBGY Subspecialties in the book Gynecological malignancies. CBS publishers.

Rath, S., Gandhi, AK., Rastogi, M., Sahni, K., Nanda, SS., Azam, M., Singh, HB., Khurana Hadi, RR., Mishra, SP., Srivastva, AK., Farzana, S. (2018). Patterns of Failure and Clinical Outcomes of Post-operative Buccal Mucosa Cancers Treated with Ipsilateral Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, 102, 3:e289

Roy, S., Subramani, V., Singh, K., Rathi, AK., Arora, S., Aggarwal, A. (2018). Dosimetric comparison of graphical and inverse planning simulated annealing based dose optimizations plans with varying values of dwell time deviation constraints for interstitial brachytherapy of cancer cervix. *J Medical Physics*, 43, Abstract OP26, S27.

Singh, K.( 2018) "Role of Radiotherapy in Children" in proceedings of Pediatric Surgery Update.

Singh, K. (2018). Care of patients receiving chemotherapy for Gynecological cancers. Chapter in 21st Practical Course in Obstetrics and Gynecology.

### **Journals**

Number of Department teachers serving as Editor(s) Member(s) of Editorial Board: 2

Arun Kumar Rathi Appointed as executive editor of Journal of Cancer research and Therapeutics, an official journal of Association of Radiation Oncologists of India.

Kishore Singh working as 'Editor in Chief' of "Journal of Cancer research and Therapeutics" an official journal of Association of Radiation Oncologists of India.

### **Research Projects**

Cadilla Healthcare Ltd., Year/Period:2019; Randomised , assessor-blind, multicentre, parallel group, two arms, clinical study to assess the efficacy, pharmacokinetics, pharmacodynamics, immunogenicity and safety of Rituximab (Zyclus) in comparison with Rituximab (Roche/Genentech) in patients with Diffuse Large B cell Lymphoma

Reliance Life Sciences, Year/Period: 2019; Prospective, multi-centre, randomised, double-blind, two arm, parallel group, active control, comparative, clinical study to evaluate efficacy and safety of R-TPR-045/Xgeva for prevention of skeletal related events in patients with bone metastasis from solid tumours.

### **Seminar/conference Presentation**

K Rathi

Delivered lecture on Role of Radiation Oncologist in colorectal cancer;" Colorectal Cancer Update, ESI-Postgraduate Institute of Medical Sciences & Research, New Delhi, Mar., 2018.

Update in Oncology X 2018, controversies in Head and Neck Cancers, SGRH, Delhi, "Is treatment for HPV +ve cancers different". April 2019

Dr Anurita Srivastava delivered talk 'QoL changes with preoperative treatment in cancer esophagus patients: NACT vs NACTRT' 3rd FARO Meeting at Bali Indonesia. Sept., 2018.

Kishore Singh

Delivered talk at X Pediatric Surgery Update, "Role of Radiotherapy in Children" Feb., 2018.

Delivered talk “Prevention of Gynecological Cancer: Evidence and possibility in India & HPV Vaccination”RAJAROICON-2018 at S.P. Medical College, Rajasthan. Aug., 2018:

### **Extension and Outreach Activities**

Participated in National Cancer Control program

Running population based cancer registry

Starting hospital based cancer registry

**Faculty Strength: 8**

### **Other Significant Information**

Dr. Kishore Singh nominated Inspector for the purpose of financial assistance as SCI & TCCC respectively under the strengthening of Tertiary Cancer Care Facilities Scheme of the National Program for Prevention and Control of Cancer, CVD, Diabetes and Stroke (NPCDCS), Govt. Of India, DGHS; Independent Expert Committee for examination of reports of Serious Adverse Events (SAE’s) of Death occurred during clinical trials at DCG (I), CDSCO (HQ), FDA, Ministry of Health and Family Welfare; Member of committee in the Radiology / Radiodiagnostics category for recommendations in case of new drug approval in the specialty at DCG(I),CDSCO, FDA, Ministry of Health and Family Welfare;

Member condemnation committee and auction committee, LN Hospital, New Delhi; Member Bureau of Indian Standards for “Diagnostic Imaging and Radiotherapy Equipment Section Committee, MHD15”; Member post graduate cell for discussion and approval of thesis protocol of PG students’ batch 2015; Expert member for Delhi Medical Council; Member technical selection committee approval / rejection of globally tendered machinery and equipments at Dr. BRAIRCH, AIIMS, New Delhi; Member selection committee for selection of Associate Professor at ILBS, Delhi; Dr. Arun Kumar Rathi nominated in Technical Specification committee for the purchase of Linear Accelerator and CT Simulator at SKIMS, Saura, Srinagar, J & K.

Dr. Anurita Srivastava: Member library advisory committee, MAMC.

Dr Savita Arora: Member technical evaluation committee for radiotherapy, LNH.

Dr Savita Arora awarded AROI overseas fellowship in 40 to 50 years age category

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## **SURGERY (LHMC)**

### **Major activities and achievements**

Bariatric programme initiated in the Department of Surgery, SSKH, LHMC. First Acute Critical Care Provider Course (ACCC) organized in collaboration with University of Manchester. UK. First Surgery PG clinical update was organized and it received an overwhelming response. We got referred cases for Video Assisted Anal Fistula Treatment (VAAFT) from all over India. We 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. Endourological Procedures like TURP (for BHP), TURBT (bladder tumors), URS were done routinely. Vascular Surgery procedures–A-V fistula for CRF patients (awaiting transplant/ undergoing dialysis) were routinely performed. We did comprehensive surgical & medical management of Gastrointestinal, Urological, Breast cancers at our facility. Impedance ph monitoring and esophageal manometry for diagnostic and research purpose & Advance laparoscopic surgeries using high definition camera were routinely performed.

### **Honours/Distinctions**

Dr. Anup Mohta: Awarded Fellowship of National Academy of Medical Sciences ( India ) on Oct.,2018.

Dr. Priya Hazrah : Fellow of The International College Of Robotic Surgeons, awarded May, 2018

Dr. Ashish Arsia : FMAS degree awarded by AMASI.

### **Publications**

Bansal, L., Sharma, D., Sekhar, S. (2018). Small Bowel Obstruction Caused by Internal Herniation Through a Mesenteric Defect - a Case Report. *Indian Journal of Surgery*.81 (1).83-85

Chaudhary, P., Munjewar, C.(2018). Advanced Hepatocellular Carcinoma in a Patient with Type 1 Neurofibromatosis. *Hellenic Journal of surgery*, 90, 151-53

Chaudhary, P., Kumar, R.(2018). Radiological evaluation of pancreatic pathologies and their help in surgical intervention: a prospective study. *Surgical Chronicles*, 23(2), 112-115

Chaudhary, P., Lal, R., Khan, AQ.. (2018). Gastric tuberculosis. *Indian journal of tuberculosis*, 66(3), 411-417.

Dhamnetiya, D., Goel, MK., Dhiman, B., Pathania, OP. (2018). Gall stone disease and qualitative analysis of biochemical paramters, study in a tertiary care hospital of India. *J lab physicians*,10, 448-52

Dhamnetiya, D., Goel, MK., Dhiman, B., Pathania, OP .(2018).Risk factors associated with gall stone disease. *Indian J Comm Health*, 30(2), 133-138

Gupta, R .(2018). Sporadic desmid type fibromatosis occurring at laparoscopic trocar site : an unusual entity. *Indian J Surg* ,80(3) , 275-277.

Gupta, R., Andley, M., Pusuluri, R., Kumar, A.(2019). Late presentation of chronic organised bilioma masquerading as gall bladder fossa mass years aftercholecystectomy. A diagnostic enigma. *Indian Journal of Surgical Oncology*, 10(2), 318-320

Kashyap, A., Jain, M., Shukla, S., Andley, M. (2018). Role of nuclear morphometry in breast cancer and its correlation with cytomorphological grading of breast cancer : A study of 64 cases., *J cytol*, 35(1), 41-45

Khan, AQ., Hazrah, P., Waseem, R., Dar, ST., Ahmad, I. (2018). Torsed intraabdominal testis mimicking acute appendicitis in a 60 year old male. *Int Surg* , 5(1), 336-338

Meena, K., Singla, S., Aggarwal, S . (2018) Inflammatory Myofibroblast tumour of Gall Bladder : A Surgical Surprise, A case report.doi: 10.5455/IJMRCR

Meena, K., Singla, S., Kumar, P.(2018). Dangerous site to wear a metallic ring: A case report and review of literature of penile strangulation. Doi: 10.5455/IJMRCR

Meena, K., Singla, S., Kumar, B.Unusual presentation of a benign breast mass: extensive skin necrosis in setting of tumour: adiagnostic dilemma

Meena, K., Singla, S., Kumar, B .(2018) Uncomplicated Meckles Diverticulum.does it really need resection? doi :10.15373/2249555x

Sharma, D., Upadhyay, V., Lal, R. Multi-detector Computed Tomography (MDCT) based component separation index (CSI) in management of large ventral hernias by Component separation technique: A prospective cohort study. *International Journal of Surgery* (Accepted, Awaiting Publication)

Sharma, M., Pathania, OP., Kapur, A., Thomasv S., Kumar, A. (2018).A randomised controlled trial of excision versus invagination in the management of indirect inguinal sac. *Ann R Coll Surgeons Engl* ,101(2), 119-122

Sharma, S., Agarwal, S., Jain, M., Singh, GB., Andley, M. (2018).Cytomorphological differences between liquid based cytology and conventional mears in fine needle aspirates of thyroid lesion . *J Cytol* ,35(4), 208-211

Singh, BK., Negi, S., Meena, K., Singh, N.(2018). Primary enterolithiasis with intestinal tuberculosis:rare presentation of common disease. *BMJ case reports* <http://dx.doi.org/101136/bcr-2018-225469>

Singla, S., , Meena, K., Aggarwal, S . (2018). Brachial plexopathy in a case of carcinoma breast: A rare presentation doi: *IJMRCR* 10.5455

Talwar N. (2018). Surgical Nutrition. In: Singh R (ed) Proceedings of Surgery Update 2018: XXXVI *National Continuing Medical Education Programme in Surgery*, 252-256

### **Journals**

Number of Department teachers serving as Editor / Member of Editorial board : > 10

Dr. Anup Mohta : Appointed Section Editor for “Pediatric Surgery” and associate editor of “Indian Pediatrics

Dr Deborshi Sharma, Elected Editorial Board Member of Indian Journal of Surgery, Official Organ of Association of Surgeons of India.

### **Organized**

Monthly meet, Delhi State Chapter , ASI LHMC Sept., 2018.

### **Conferences organized**

58th AMASI Skill Course. LHMC. Oct., 2018.

Hands on Workshop on suturing and knotting during Medicus Conventus 2018 at Lady Hardinge Medical College, New Delhi, June, 2018.

Acute Critical Care Course at Lady Hardinge Medical College, New Delhi in August 2018

LHMC Surgery PG Clinical Update. Feb., 2019.

CME on Bariatric Surgery. LHMC, New Delhi, Mar., 2019.

Delhi Chapter of Association of Surgeons of India. Monthly meeting of Delhi chapter of ASI held at LHMC,. Sept., 2018.

### **Seminar/Conference presentation**

Deborshi Sharma took lecture on “Diagnostic Laparoscopy” at 55th AMASI Skill course, VAPI, VAPI, Gujarat, Apr.2019.

Gyan Saurabh delivered a talk on “Palliation in carcinoma Gall bladder” at CME on recent advances in oncology , SJ Auditorium , LHMC, New Delhi Dec. 2018.

Nikhil Talwar took lecture on “Publish or Perish” or rather “Publish and flourish” at IJS Scientific writing Workshop, New Delhi. June, 2018

Sudipta Saha was Faculty and Instructor and took lecture on Fluid & Sodium: applied physiology at Acute Critical Care Provider Course LHMC Aug., 2018.

Shaji Thomas took lecture ‘Adjuvant therapy in Breast cancer’ in CME on Recent Advances in Oncology . LHMC, New Delhi, Dec., 2018.

### **Other Inter Institutional Collaboration**

First Acute Critical Care Provider Course (ACCC) was organized by Department of Surgery, LHMC in collaboration with University of Manchester. United Kingdom Aug., 2018. More than 25 residents from various clinical departments in LHMC were trained in critical life saving skills.

**Faculty strength:** 27

### **Other significant information**

Azaz Akhtar: As Expert in Public Service Commission Interview, Jammu & Kashmir Public Service Commission in Dec 2018

Deborshi Sharma, Elected Vice President (CZ), Association of Minimal Access Surgeons of India during 13th AMASICON 2018 held in SGPGI, Lucknow; ,Organised 58th AMASI Skill course in Lady Hardinge Medical College as Organising Secretary for relief of Kerala Flood Victims and Rs 10,00,000 were donated from the course through AMASI to Kerala Chief ministers fund; Appointed Master of Surgery examiners in Delhi University, NEIGRIHMS (Shillong), Baba Faridkot University Punjab, Datta Meghe University Wardha, MGM Mumbai & Aurangabad and National Board Examination; Appointed Inspector for Course studies Guru Govind Singh Indraprastha University (Delhi); Appointed Expert in Union Public Service Commission, National Board of Examination and Employee State Insurance Medical College faculty selection Board.

Manoj Andley and Dr. Gyan Saurabh: attended “Masterclass on Bariatric Surgery organized at 26th International Congress of European Association of Surgery held in London on 30th May’2018

Manoj Andley: Member of Research Committee, Drug store inspection committee, AMC Committee Proprietary Committee, Linen Committee Disinfection Committee, Member Inspection Committee Medical Stores of Lady Hardinge Medical College; Attended “Masterclass on Bariatric Surgery organized at 26th International Congress of European Association of Surgery held in London on 30th May’2018

Piyush Pippal PG III was awarded the third best presentation TYSA (Association of Surgeons of India) during ASI (NZ) Regional Refresher Course in Dehradun from 21<sup>st</sup> - 23<sup>rd</sup> September 2018. He got prize during National Conference in December also.

Priya Hazrah: Examiner / Evaluator: 58th AMASI skill course and FMAS Exam, October 2018, LHMC

Gyan Saurabh: Member of Technical Specification / Evaluation Committee , AIIMS , New Delhi; External expert, Interview for the post of Assistant Professor of Surgery (on contractual basis) , Dr RML Hospital; Member of Drug Inspection Committee and Member of Research Committee ,LHMC; Member of various committees for the annual day celebration of Lady Hardinge Medical College; External examiner

Romesh Lal: Invited for live demonstration of surgery for Ventral Hernia at ESI Faridabad and surgery for inguinal hernia ( TAPP ) at Rajasthan Chapter of ASI; External expert for the interview of various faculty positions at ESIS Medical College Faridabad; External expert for the interview of various faculty positions at Rohtak University.

Shaji Thomas : HOD Surgery w.e.f from 12 Sept 2018; Made member of BoG (MCI) appointed UG Expert Committee ;Member, Technical Resource Group (TRG) for finalizing Minimum standards for Trauma Care Facilities, Ministry of Health and Family Welfare; Expert for interview for Faculty positions, Dr Baba Saheb Ambedkar Medical College and Hospital, NCT Delhi; Member, Board of Studies for Undergraduate medical courses, AIIMS, Bhubaneswar.

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### **SURGERY (MAMC)**

#### **Major Activities and Achievements**

Department of Surgery is the leading surgical teaching and training department of India. At any time, we are responsible for surgical education of 1250 undergraduate and 48 post graduate students. This year 16 post graduate thesis were submitted which are excellent works of research. Our faculty and students are sought after in post degree placements, Super-specialty courses and also in medical conferences.

#### **Honours and Distinction**

Dr Pawanindra Lal

Awarded Dr AK Sensarma Endowment Lecture by the ASI at the ASICON 2018 at Chennai. Dec.,2018.

Awarded Delhi State Health Award 2014-15 as a Medical Teacher of Excellence.

Appointed Chairman of the Surgical Sectional Committee of Bureau of Indian Standards.

Dr Deepak Ghuliani received Fellowship from American College of Surgeons (FACS) in Oct., 2018.

### **Publications**

Agarwal, S., Singh, R., Mishra, A., Agarwal, PN., Prakash, A. (2019). Management of Chyle fistula with Contrast Instillation: a Case Report. *Indian Journal of Surgery*,81(3), 287–289

Agarwal R., Sinha D., Tomar R., Mandal S., Bains L., Jain S.(2019). Primary malignant peripheral nerve sheath tumor of the breast. *The Breast Journal*, 25(4), 742-74

Anurag, M.(2018). Chapter titled “Damage Control Surgery” in proceedings of Surgery Update, published by department of surgery, MAMC.

Bains, L. (2018). Contributed a chapter in “Surgery for Medical Graduates” 1st Ed. Elsevier India. eBook

Bhatia, S., Jain, SK., Singh, CB., Bains, L., Kaushik, R., Gowda, NS. (2018). Malrotation of the Gut in Adults: An Often-Forgotten Entity, *Cureus*, 12, 10(3).e2313. doi: 10.7759/cureus.2313

Celentano, V., Smart, N., McGrath, J., Cahill, RA., Spinelli, A., Obermairv A., Hasegawa, H., Lal, P., Almouadaris, AM., Hitchins, CR., Pellino, G.. LAP-VEGaS.(2018). Practice Guidelines for Reporting of Educational Videos in Laparoscopic Surgery: A Joint Trainers and Trainees Consensus Statement. ,268(6), 920-926

Gupta, L., Bhatt, AS., Mallya, V., Khurana, N., Lal, P. (2018). Adrenal medullary hyperplasia with coexistent cerebral angiomas. *Indian J Pathol Microbiol*, 61:587-9

Jain, S., Jain, SK., Kaza, RC., Singh, Y.(2018).This challenging procedure has successful outcomes: Laparoscopic nephrectomy in inflammatory renal diseases. *Urol Ann*, 10, 35-40.

Kumar, S., Kumar, L., Manchanda, A., Batra, R., VR, Vindal, A., Garg, A., Lal, P. (2018). Multiple Osteolytic Lesions Due to Primary Hyperparathyroidism. *MAMC J Med Sci*,4, 155-8.

Kansakar, N., Singh, R., Mishra, A., Agarwal, PN., Seth, S. (2018). Evaluation of combined use of modified Alvarado score and Ultrasound in predicting acute appendicitis: a prospective study. *Int Surg J*, 5(11), 3594-7

Mishra, MK., Vindal, A., Lal, P. (2018). Solitary Massive Hydropneumoperitoneum in Abdomen Roentgenogram: A Pointer Toward Perforated Viscous in an Abdominal Cocoon, *MAMC J Med Sci*, 4, 52-3

Pandey, VK., Ghuliani, D., Neogi, S., Khurana, N., Jindal, RK.( 2019). Evaluation of axillary lymph node metastasis in relation to size and metastatic status of sentinel lymph node in carcinoma breast, *International Surgery Journal*, 6(4), 1269-73

Singhal, PM., Vats, M., Agarwal, M., Neogi, S. (2018). Pancake kidney: an incidental finding in a young man. *BMJ Case Rep*. doi:10.1136/bcr-2018-226751

Seth, S., Kansakar, N., Singh, R., Mishra, A., Agarwal, PN.( 2018).Ruptured inferior mesenteric artery aneurysm in a patient with neurofibromatosis type I and its management., *Int Surg J*, 5(2). DOI <http://dx.doi.org/10.18203/2349-2902.isj20180384>

Trilok, C. (2018). Chapter titled “Lymphedema” in proceedings of Surgery Update, published by department of surgery, MAMC.

Vindal, A. (2018). Laparoscopic Ventral Hernia Repair. In Proceedings of Surgery Update, New Delhi, MAMC, 240 – 249.

## Book

Jain, S. (2018), Surgery for Medical Graduates, Elsevier India

## Scientific papers

Bains, L. (2018). Intravesical gossypiboma- our experience and the need for stringent checklist and training! BMJ Case Reports (Accepted for Publication)

## Journals

Dr Pawanindra Lal is the Editor in Chief of MAMC Journal of Medical Sciences, the official Journal of Maulana Azad Medical College.

**No of Faculty serving editors/ Members: 3**

## Research Projects

TITCO India, 2016-2020, Multicentre observational study- “The Trauma Triage study in India (TTRIS)-A comparison of prediction model for triage in adult trauma patients presenting to hospitals”. [Prof. Rajdeep Singh & Asst. Prof. Anurag Mishra

TITCO India, 2018 – 2020, TAFT- Multicentric trial on Audit filters in Trauma” Prof. Rajdeep Singh & Asst. Prof. Anurag Mishra.

## Seminars Organized

ASI DSC Hands on workshop on laparoscopy Apr., 2018.

International Hernia Collaboration 2018, May, 2018.

Workshop on Gasless Laparoscopy June 2018.

1st MAMC ACCC Instructor Course, Aug., 2018.

Workshop on Trauma Quality Improvement Process ; Nov., 2018.

## Conferences Organized

Surgery Update 2018 Sept., 2018.

Endolap 2019.

## Seminar/ Conference Presentations (International/International) (Selected)

Anubhav Vindal Guest Lecture on: Meshes and Fixation Devices for Ventral Hernia Repair at APHS 2018, 14th International Congress of Asia Pacific Hernia Society, Dubai, U.A.E, Nov., 29th - December 1st, 2018,.

Anurag Mishra ,Gasless Laparoscopic Surgery Workshop, Medical College & Hospital, Kolkata as lead Faculty, Feb., 2018.

Pawanindra Lal Bilateral TEP in Unilateral Hernia- An experience of a decade! ,14th International Congress of Asia Pacific Hernia Society, Nov., 2018, Dubai.

Rajdeep Singh: As Invited speaker : SURGICON, annual conference of Delhi Chapter of ASI, 2019

## Faculty Strength: 13

## Other Significant Information

Deepak Ghuliani Conducted MAMC SURGIQUIZ a post graduate surgery quiz 2018 at Surgery update 2018

Lovenish Bains Sporadic Renal Hemangioblastoma – Unusual Tumor; Uncommon Site. Poster at MASCON 2018, AIIMS Rishikesh, Mar .,2018.;Dr Lovenish Bains Zinner Syndrome: an uncommon cause of bladder outlet obstruction. Poster at SURGICON 2018, NRCH, New Delhi. Nov 2018 (3rd Prize); Paratesticular spindle cell rhabdomyosarcoma with ascites- Poster at SURGICON 2018, NRCH, New Delhi. Nov .,2018.

Pawanindra Lal: Head of Clinical Skills Centre and Member Secretary PGMET Cell, MAMC; Member Expert Surgery - Delhi Medical Council and for CGHS, GOI;

I/C CSSD, LNH and Main OT Complex, LNH; Elected as Governing Council Member of the Association of Surgeons of India ; (ASI) - 2019-2021 and as Vice President (North) - SELSI(India) 2019-20.

Rajdeep Singh:Appointed member of Advisory Board under chairmanship of Director ICMR for development of Standard Treatment Workflows for Govt of India;Chairman, Expert group in Surgery for developing Standard treatment workflows for DHR / ICMR;Chairman, expert group in surgery for collaboration with National Health authority for clarifying packages under Ayushman Bharat Scheme;Member, Surgical Instruments Sectional Committee MHD 01, Bureau of Indian Standards;Executive Member, Association of Minimal Access Surgeons of India;Member Interview board, Indian Chapter of American College of Surgeons;Member, Sexual Harassment Committee, Lok Nayak Hospital

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## **SURGERY (UCMS)**

### **Major Activities and Achievements**

Despite struggling with severe faculty shortage, there have been many publications from the department. The Department has also conducted a workshop on Acute Critical Care during this period. One of the members has been nominated to the UG committee of the Medical Council of India. One faculty member received her Ph.D. degree. Two faculty members got honorary nomination to the Royal College of Surgeons and Physicians of Glasgow. The department has significantly upgraded its emergency facilities.

### **Honours/Distinctions**

Dr. Pankaj Kumar Garg received fellowship of Royal College of Surgeons and Physicians (Glasgow)

Dr. Pankaj Kumar Garg received ESSO training fellowship grant, Department of General. Thoracic, and Visceral Surgery, Charite, University of Berlin, Germany

Dr. Navneet Kaur awarded PhD Surgery during DU Convocation Nov., 2018

Dr. Naveen Sharma received fellowship of Royal College of Surgeons and Physicians (Glasgow).

### **Publications**

Alberto, M., Brandl, A., Garg, PK., Gül-Klein, S., Dahlmann, M., Stein, U., Rau, B. (2019). Pressurized intraperitoneal aerosol chemotherapy and its effect on gastric-cancer-derived peritoneal metastases: an overview. *Clin Exp Metastasis*, 36(1), 1-14.

Arya, S., Shahab, S., Kumar, R., Garg, PK. (2018). Adult Bochdalek Hernia with Organo-Axial Gastric Volvulus: Misdiagnosed as Hydropneumothorax. *Acta Medica (Hradec Kralove)*, 61(3), 108-110

Garg, PK., Brandl, A., Rau, B. (2018). Hyperthermic Intraperitoneal Chemotherapy - Fading Perspective in the Light of Modern Systemic Chemotherapy? *Visc Med*, 34(6), 412-416.

Garg, PK., Jakhetiya, A., Sharma, J., Chishi, N.(2018). The role of prophylactic octreotide to prevent postoperative pancreatic fistula following pancreaticoduodenectomy: a meta-analysis of randomized controlled trials. *Surg J*, 4(4): e182-e187.



Garg, PK., Sharma, G., Rai, S., Jakhetiya, A.(2019). Primary salivary gland-type tumors of the lung: A systematic review and pooled analysis. *Lung India*. 36(2), 118-122.

Garg, PK.(2019). Letter to Editor: Routine Pathology and Postoperative Follow-Up are Not Cost-Effective in Cholecystectomy for Benign Gallbladder Disease. *World J Surg*. doi: 10.1007/s00268-019-04919-x.

Goel, A., Garg, PK.(2018). The role of surgery in the palliative care of cancer: a review. *Gulf J Oncology*, 28,61-71.

Goel, A., Gaur, MK., Garg, PK.(2018). Milky Mesentery: Acute Abdomen with Chylous Ascites. *Indian Pediatr*, 55, 909-10.

Goel, A., Insa, R., Gaur, MK., Garg, PK. (2018). Palliative Surgery for Metastatic Fungating Phyllodes Tumors: A Series of Two Cases. *Perm J*, 19(22). doi:10.7812/TPP/17-100.

Kaur, N., Gupta, A., Sharma, A., Jain, A. (2018). Survivorship issues as determinants of Quality of life after breast cancer treatment: Report from a limited resource setting. *The Breast*, 41, 120-126.

Kaur, N., Jain, A. Delivering Survivorship Care to Women in Low-Resource Settings: A Report From India. DOI: <https://doi.org/10.1200/JGO.18.10240>.

Kaur, N., Kumar, A., Saxena, AK., Grover, RK.(2019). Pregabalin in the treatment of postmastectomy chronic pain: Results of an open label, single-arm clinical study. *Breast J*, 25(3), 465-46

Kaur, N., Kumar, A., Saxena, AK. et al. (2018) . Postmastectomy Chronic Pain in Breast Cancer Survivors: an Exploratory Study on Prevalence, Characteristics, Risk Factors, and Impact on Quality of Life. *Indian J Surg*, 80(6), 592-598

Kumari, A., Diwaker, P., Gogoi, P., Arora, VK., Garg, PK., Pandey, R.(2018). Primary extraneural ependymoma of the broad ligament: A rare entity. *J Can Res Ther*.DOI: 10.4103/jcrt.JCRT\_672\_17

Swain, SK., Kaur, N., Banerjee, BD., Thamineni, K., Sharma, T. (2018). Organochlorine Pesticides Exposure as a Risk Factor for Breast Cancer in Young Women: A Case Control Study *Journal of Global Oncology*, DOI: 10.1200/jgo.18.76300

Sharma, A., Jariwala, P., Kaur, N.(2018). Biliary ascariasis presenting with gangrenous perforation of the gall bladder: report of a case and brief review of literature. *Tropical Doctor*, 48(3), 242-24

Sharma, G., Jain, A., Sharma, P., Sharma, S., Rathi, V., Garg, PK. (2018).Giant exophytic renal angiomyolipoma masquerading as a retroperitoneal liposarcoma: A case report and review of literature. *World J Clin Oncol*, 10;9(7), 162-166.

Sharma, G., Rai, S., Garg, PK. (2018). Spontaneous asymptomatic rupture of pseudocyst into stomach. *BMJ Case Reports*. doi:10.1136/bcr-2018-226717

Singh, I., Shah, S., Gupta, S., Singh, NP. (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., Suman, D., Gupta, S., Garg, G. (2018). Penile strangulation by multiple steel ball bearings: desperate situation-desperate measures. *BMJ case reports*, doi: 10.1136/bcr-2018-227586

#### Book

Gupta S. Methods and materials in a thesis. In: Parija SC, Kate V, editors. Thesis Writing for Master's and Ph.D. Program. Singapore; Springer; 2018, p. 141-152.

#### Seminar organized

Acute Critical Care Course 2018 - for Surgeons, Aug., 2018.

### **Conference organized**

International Conference on Cancer of Larynx and Hypopharynx and Pre- Conference Workshops, Dec., 2018.

### **Seminar/Conference Presentations ( international/National) (Selected)**

Dr Pankaj Kumar Garg invited lecture on “Pancreatic Neuro-endocrine tumors” in a CME on pancreas organized by Department of laparoscopic & General Surgery, Sir Ganga Ram Hospital in association with Delhi state chapter -ASI and KRISH foundation. Sept., 2018

Pankaj Kumar Garg invited lecture on “Management of neck in clinically node-negative oral cancer” in a two days EAFO (Eurasian Federation of Oncology) oral cancer forum held in Samara, Russia. Apr., 2018.

Dr Sanjay Gupta delivered a talk on 'How to attempt theory paper in PG examination' during Surgery Clinically Oriented Postgraduate Examination Course (SCOPE Course) organized at Dr Ram Manohar Lohia Hospital & PGIMER, New Delhi. Feb., 2019.

Dr Sanjay Gupta delivered a lecture on 'Surgical management of urinary stones' during Surgery Update 2018 at MAMC, New Delhi.

Dr. Navneet Kaur invited speaker on “Oncoplastic breast Surgery” at AMU Surgery Update 2018, organized by the Department of Surgery, Jawaharlal Nehru Medical College, AMU, Aligarh, UP. Apr., 2018.

Dr. Navneet Kaur invited speaker on “Role of oncoplastic surgery in breast cancer” at HASICON 2019, at SHKM Government Medical College, Nalhar, Nuh, Haryana. Feb., 2019.

### **Faculty Strength: 7**

### **Other Significant Information**

Dr Sanjay Gupta: Appointed expert member for promotion of faculty under DACPS at BHU;

Appointed as member of UG Expert Group Committee of Medical Council of India;

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## **UNIVERSITY COLLEGE OF MEDICAL SCIENCES**

### **Major Activities and Achievements**

Department of Orthopaedics started a Bone Bank for harvesting and storing (fresh frozen & De-calcified) bones obtained from live donors. Department of Anesthesiology in Pain & Palliative Care Clinic, established “PAIN GENETICS” as a special focus of research for Chronic Pain & Cancer Pain patients. Department of Pediatrics started Speciality Clinic: Pediatric Hematology Oncology Clinic

### **Honours/Distinctions**

Dr. Saxena AK, Anesthesiology Elected as President of North Zone, Indian Society of Anesthesiologists (ISA). Awarded Membership of the “fellowship, awards & grants USA committee” of International Association for Study of pain (IASP), USA.

Dr. Chauhan R, Anatomy Jai Hind Award given for social activities by AR Foundations in the constitution club; Awarded by Delhi Doctors Forum on in recognition of outstanding contribution to medical profession and community; Awarded outstanding and exemplary educator award on the teacher’s day by PFI.

Dr. Grover C, Dermatology Conferred with the title of Honorary Fellow, Rita Skin Foundation at the 5th RSF Annual Conference and Workshop on Dermoscopy and Trichoscopy held at Mumbai, India; Winner of SIG ACAD activity of the month (for 2018) on behalf of SIG Dermatotomy, in the capacity of Convener, SIG-Dermatomy.

Dr. Singal A, Dermatology; Best Thesis Award "Nail Dermoscopy (onychoscopy) findings in the diagnosis of primary onychomycosis; A cross sectional study", DERMACON International 2019 held at Bengaluru.

Dr. Aggarwal NK, Forensic Medicine; Awarded the "Vishisht Chikitsa Ratna Award" on the occasion of Doctors Day award ceremony at MAMC Auditorium organised by DMA Delhi.

Dr. Verma SK, Forensic Medicine Chosen for "Glory of India" (Gold Medalist) Award by Best Citizen Publishing House, New Delhi

Department of Obstetrics & Gynaecology SN Mukherjee Rotation Trophy for best presentation in clinical meetings of AOGD

Dr. Rajaram S, Obstetrics & Gynaecology APJ Abdul Kalam Award for Excellence, conferred by Delhi Gynecologic Forum

Dr. Sharma R, Obstetrics & Gynaecology ICOG Emcure Travel Award 2018-Annual ICOG Convocation at Bengaluru; FOGSI - Dr. C. S. Dawn Prize on official theme topic; FOGSI – Padmabhushan Kamlabai Hospet Award 2018; FOGSI – Leaders of Tomorrow Award 2019

Dr. Singh A, Obstetrics & Gynaecology Junior Corion Award for the year 2018 for research work;Gold Medal for best paper (Dr. Ganguli theme topic) in 25<sup>th</sup> annual conference of NARCHI Delhi

Dr. Suneja A, Obstetrics & Gynaecology Teachers of Teachers Award by East Delhi Gynae Forum

Dr. Harit D, Paediatrics 'James Flett Endowment award (First Prize) for best research paper at the 56th National conference of Indian Academy of Pediatrics, PEDICON

Dr. Singh S, Physiology Awarded Shoorveer Award 2018 by Ample Mission in Mumbai for initiatives in disability sector.

### **Publications**

Bhatia MS, Saha R. (2018) Burnout in medical students: a growing concern. *J Postgrad Med*, 64, 136-137.

Gogia V, Vaid L, Singh P P, Saha R. (2018). Evidence of Bacterial Biofilm in Chronic Rhinosinusitis: Factors affecting and the impact on prognosis. *International Journal of Otorhinolaryngology & Head Neck Surgery*, 4(6), 1405-10.

Gomber S, Bagaria A, Madhu SV, Dewan P. (2018). Glucose Homeostasis Markers in Beta-Thalassemia. *J Pediatr Hematol Oncol*, 40(7), 508-510.

Jain AK, Dhammi IK. (2019) Indian Journal of Orthopaedics: An Audit of 12 Years. *Indian J Orthop*. 53(1), 1-4.

Jain AK, Jaggi KR, Bhayana H, Saha R. (2018). Drug-resistant spinal tuberculosis. *Indian J Orthop*, 52, 100-7.

Kalra N, Tyagi R, Khatri A, Poswal A, Panwar G, Garg K. (2018). Double Lip-An Atypical Facial Anomaly: Two Case Reports. *Int J Clin Pediatr Dent*, 11(5), 451-455.

Pandhi D, Kaur I, Singal A, Sharma S. (2019) Atypical presentation of immunoglobulin A vasculitis in disseminated tuberculosis. *Int J Dermatol*. 58, e1-3.

Saxena AK, Jain Parmanand, Dureja Gur Prasad, et al. (2018). Pharmacological Management of Neuropathic Pain in India : A consensus statement from Indian Experts, *Indian J Pain*, 32(3),1-13

Sharma AK, Kalra OP, Saini NK, Kelkar H. (2019) Pilot Study of Chronic Obstructive Pulmonary Disease in an Industrial Town in India. *J Health pollution*. 9(21), 190304.

Suneja A, Priyadarshini V. Roadmap to safe hysteroscopy. (2018). *Indian J Gynecol Endosc*, Aug, 5-10.

## **Journals**

Published by the College : 2

of college teachers serving: 13

Editor(s) Member(s) of Editorial Board

## **Research Projects**

AYUSH Grant Rs. 47,00,160. Dr. Ahmed RS, Experimental studies to assess the efficacy of commonly used unaniformulations for improvement of cognitive functions and neuroprotection. 2016-2019.

DBT Grant Rs. 23,57,000. Dr. Kar R, Primary cultures of epithelial ovarian cancer as a tool to detect resistance to chemotherapeutic agents – a pilot study

ICMR, Grant Rs. 22,31,260. Dr. Mehndiratta M. 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. 2017-2019,

ICMR, Grant Rs. 50,00,000. Dr. Sharma SB, Design and synthesis of alpha hydroxy succinamic acid isolated from *Eugenia jambolana* and its structural analogs for the assessment of the anti diabetic potential in STZ induced diabetic rat, 2015-2019.

DBT, Grant, Rs. 20, 00,000 Dr. Das S, Investigation of mechanisms of emerging drug resistance in *Trichophyton* sp., the major causative agents of fungal skin infections, 2017-2020.

DBT, Grant Rs. 27, 50, 000. Dr. Guleria K, Delhi Air Pollution and Health Effects-M.C Cohort (DAPHNE), 2018-22.

ICMR, Grant Rs. 48,00,000, Dr. Suneja A, Capacity building through HRRCs and teaching institutes to operationalize government guidelines for screening of common cancers (oral, breast and cervical) – ICMR Task Force study, 2018-2020.

UGC, Grant Rs. 14,20,000. Dr. Sharma S, To study the role of Type I regulatory T cells in skin in patients with Pemphigus vulgaris during acute disease and remission, 2018-19.

## **Seminars Organized**

CME on “Critical Care- A paradigm shift”

ENT workshop (a part of International conference on Cancer of larynx and hypopharynx and hands on Preconference Workshop)

Training of Trainers programme on Nutrition and Health Education for Supervisors and CDPOs organized by CFNEU, Food and Nutrition Board and Department of Community Medicine

International Immunology Day ,invited guest speaker Dr Urmi Bajpai “Phage Therapy”

Head and neck cadaver dissection, Thyroplasty and airway reconstruction; post laryngectomy rehabilitation and tracheoesophageal puncture; hands on trans oral laser microsurgery workshop (TOLMS)

## **Conferences Organized**

17th North Zone ISA Conference and 57th Annual Conference of Delhi Branch at NAC-ICAR Complex, Pusa, New Delhi

International conference on cancer of larynx and hypopharynx, UChicagoCenter, New Delhi

Course on Clinical Examination for Postgraduates COCEP 2019

Delhi Society of Hematology Annual conference

A two-day Acute Critical Care Course 2018 for Surgeons

### **Seminar/ Conferences Presentations**

Choudhary S, Anaesthesiology, part of the organizing team for 17th North Zone ISA Conference & 57th Annual Conference of ISA Delhi Branch ISA & delivered a talk on “CPR in Operation Theatre”.

Chaturvedi S, Community Medicine, Quality Assurance of GoI Multicentre Active Surveillance of AEFI in India, Visakhapatnam.

Dewan P and Dr. Harit D, Pediatrics, International Digestive Disease Forum 2018, Hong Kong (Delegate).

Das S, Microbiology, attended & presented paper at International conference ISHAM at: Amsterdam, Netherlands.

Gupta N, Otorhinolaryngology, 2nd International Conference on Ear, Nose and Throat Disorders, Osaka, Japan (Chairperson and guest speaker).

Kaur N, Surgery, paper presentation on “Survivourship issues as determinants of Quality of life after breast cancer treatment: Report from a limited resource setting” at World cancer congress Kuala Lumpur, Malaysia.

Jain AK, Orthopedics, attended Biennial Congress of the Asia Pacific Orthopedic Association at Antalya, Turkey.

Suneja A, Obstetrics & Gynaecology, Chairperson DGES- Annual conference & Regional International conference of ESGE (European Society of gynaecological endoscopists), held at Hotel Le Meridien.

Saxena AK, Anaesthesiology, presented a Research Paper on Posttherapeutic Neuralgia & moderated a session as invited faculty on “Systematic Reviews” in Chronic Pain during the 17th World Congress on Pain, held at Boston, USA.

Singal A, Dermatology, 25th European Academy of Dermatology and Venereology Congress (EADV) Paris (France).

### **Library Development**

Total budget

Books: Rs. 7,87,806=00 (Rupees Seven Lacs Eighty Seven Thousand and Eight Hundred and Six Only)

Journals: Rs. 41,51,328=00 (Rupees Fourty One Lacs Fifty One Thousad Three Hundred and Twenty Eight only).

Number of books added (01/04/2018-31/03/2019): 158

Purchased =139 , Donation=19

Total number of books as on (31/03/2019): 20216

Number of journals subscribed to:

Foreign : 47

Indian : 53

Total : 100

No. of Bound Journals as on 31/03/2019: 24520

On-line resources

Membership taken for ERMED Consortium started by NML providing 241 high quality e-journals published by four leading publishers.

Membership of Developing Libraries Network (DELNET). As per the users requests, the articles and books not available in the library were arranged through DELNET Inter Library Loan Service.

Access to E-journals free with print subscription.

Wi-Fi-enabled library and 21 computers for providing internet search facility to the users.

**Faculty Strength: 93**

### **Other significant information**

Students with Distinctions

Dr. Swati Das, Anaesthesiology, (3rd Year PG student, Mentor & Supervisor: Prof Ashok Kumar Saxena) awarded with the most prestigious National Award of ISA National T.N.Jha award, on 29.11.19.

Dr. Manasa KN, Dermatology, awarded Best Thesis Award "Nail Dermoscopy (onychoscopy) findings in the diagnosis of primary onychomycosis; A cross sectional study" during DERMACON International 2019 held at Bengaluru, January, 2019.

IADVLS scholarship for attending 24th World Congress of Dermatology, Milan, Italy from 10-15th June 2019 for E-poster 'Nail Dermoscopy (onychoscopy) findings in the diagnosis of primary onychomycosis'

Bhartiya Nikita, Obstetrics & Gynecology, awarded Dr Urmil Sharma Award Holistic approach in Practice of Obstetrics and Gynecology. Best paper Award at 32nd AICC RCOG Annual conference at New Delhi, 3rd and 4th November, 2018

Gorika Singhal, Pediatrics awarded VB Raju 1st Prize for research work entitled "Twice weekly versus thrice weekly prophylactic factor VIII therapy in children with hemophilia A: an open label randomized clinical trial"

Dr. Philip Ashish, Pathology awarded 1st Prize in Original Article Poster entitled "Serum Ferritin in first time and regular voluntary blood donors." in 29th Annual Conference of Delhi Society of Hematology. 2018, 23 Sep 2018

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## **V.P. CHEST INSTITUTE**

### **Major Activities and Achievements**

The Institute continued its 'education', 'research' and 'patient care' activities. The core academic, research and patient care activities are carried out under Departments of Biostatistics, Biochemistry, Microbiology, Pulmonary Medicine, Pathology, Pharmacology and Physiology. Dedicated Patient care facilities include Viswanathan Chest Hospital, DOTS Centre, National Centre of Respiratory Allergy, Asthma and Immunology, National Tobacco Quitline, Cardio-Pulmonary Rehabilitation Clinic, Yoga Therapy Centre etc. The Institute also has a state-of-art Library, Animal House, Auditorium, Indoor Sports Complex, PG Students Hostel and Gymnasium.

Postgraduate students are trained for DM and MD degrees in Pulmonary Medicine; for MD Degree in Biochemistry, Physiology, Microbiology and Pharmacology, and for PhD degree in Chest Medicine and Allied sciences. The Institute also organized several Orations, Conferences, Workshops, Continuing Medical Education (CME) programmes, Public Lectures during the period. The Institute has been awarded 17 research projects by various governmental agencies, namely, AYUSH, DHR, CCRUM, DST, DIPAS, ICMR, NIF to the tune of 10.00 Crore. The clinical wing, VCH, a tertiary care center provided specialized clinical consultations, diagnostics and treatment services to patients. The OPD of the hospital registered

over 15700 new patients and 59,800 follow-up cases. The IPD admitted 2,500 patients in General and 2,500 in Emergency wards. The RICU admitted 350 patients for intensive care. Over 40,000 patients were provided Emergency services. Tobacco Cessation Clinic registered 436 new patients and 228 were followed up. The Yoga Therapy and Research Centre has provided services to over 400 subjects for healing different categories of diseases by Yoga. The Cardio-Pulmonary Rehabilitation Clinic provided breathing retraining education, rehabilitation programme services to over 430 patients. Pulmonary rehabilitation program helps in regaining the functional capacity and reduce disability in these type of patients. National Tobacco Quit Line service (NTQLS) a telephone-based free-of-cost counselling service, accessed through a toll-free no. 1800-11-2356, received over 50,000 phone calls and provided appropriate counselling to quit use of tobacco. The clinical laboratories under different departments provided various diagnostic services including 25,000 Pulmonary Function Testing, 160 bronchoscopy, 3,000 CT-Scans, 26,000 X-rays, 55,000 Clinical Biochemistry, 16,000 Microbiology, 20,000 Arterial Blood Gases, 39,000 Pathology, 200 Polysomnographs. Specialized investigations included 1,000 skin allergy tests, 1500 HIV, 5400 Serum IgE, 1000 Serum ACE, 700 Thyroid Profile, 1000 ANA, 400 c-ANCA & p-ANCA, 1500 HbsAg, 1500 HCV.

### **Honours/Distinctions**

Dr. Raj Kumar

Served as Editor-in-Chief, Indian Journal of Chest Diseases and Allied Sciences, an official publication of the V.P. Chest Institute and the National College of Chest Physicians (India); As Fellow, National Academy of Medical Sciences, New Delhi ; ; Served as University Representative, Medical Council of India, Government of India.; As Expert, Guidelines for COPD/Asthma for their inclusion under National Centre for Disease Control (NCDC), Delhi; As Member, Nasha Mukti Abhiyan Task Force (including Tobacco, Alcohol, and Substance abuse) under National Health Policy-2017, Ministry of Health and Family Welfare, Government of India, New Delhi; AS Expert Member, Joint Scientific Advisory Committee, ICMR, New Delhi; Recipient of ESDA Global Green Award-2019, at International Conference on Global Environmental Challenges Human Health and Sustainable Development, New Delhi

### **Department of Biochemistry**

Dr. SK Bansal s Nominee of Vice-Chancellor, University of Delhi, to represent the University under Statute 30(1) (C) (i) of Statutes of the University on the Governing Body of School of Rehabilitation Sciences for a period of one year w.e.f. 23.01.2018; As Secretary General, Biotechnology Society of India ; As Vice President - ACBI Delhi Chapter; As Member, Editorial Board, Open Journal of Respiratory Diseases

Dr. Vishwajeet Rohil

Invited as External Expert by DIPAS to attend the meeting on “Project Monitoring And Review Committee Meeting” (PMRC) meeting of 12th Five year plan project held in DIPAS, Defence Institute of Physiology & Allied Sciences, Defence Research & Development Organisation (DRDO), Ministry of Defence, Govt. of India 2019; Appointed by the Faculty of Medical Sciences, University of Delhi as an Internal Examiner and Convener in the discipline of MD (Biochemistry); Invited as External Expert by DIPAS to attend the “Seventh Executive Board Review Meeting” of XII Five year plan project held in DIPAS, Defence Institute of Physiology & Allied Sciences, Defence Research & Development Organisation (DRDO), Ministry of Defence, Govt. of India on May, 2018; Guest of Honor at the National Conference “Emerging Trends in Non-Communicable Diseases: Road to Prevention and Cure” held by Institute of Management Studies (IMS) University, Ghaziabad on Nov., 2018; Appointed as a member in the capacity of Chairperson on the Institutional Ethics Committee at School of Biosciences, Institute of Management studies (IMS), Ghaziabad.

### **Department of Microbiology**

Dr. Mandira Varma Basil received Basil First poster award at IAMM-DC conference held at Lady Harding Medical college on 21st April, 2018. Chanchal Kumar, Shraddha Gupta, Kamal Shrivastava, AsthaGiri,

Naresh Kumar Sharma, Mandira Varma-Basil, A comparison of phenotypic method of drug susceptibility profiling of *Mycobacterium tuberculosis* with sloppy molecular beacon assay.

Dr. Anuradha Chowdhary as WHO Consultant, to develop early implementation program for Antifungal resistance in *Candida* to be included in GLASS. (Nov 2018- Feb 2019); Received Women Achiever Award in Health Care by AMITY University, Uttar Pradesh, India 2018.

Department of Pharmacology

Dr. Anita Kotwani Member of the advisory group on “Fair Medicine Pricing Forum” of World Health Organization (WHO). Participated the meeting held in March 2019 at Johannesburg, South Africa; Sanctioned a multi-disciplinary project by Department of Biotechnology under Indo-UK collaboration, “Smart Regulation for antibiotic use in India: understanding, innovating and improving compliance”, September 2018-September 2021. Total budget for the project: 136.988 lakhs.

Dr. Kavita Gulati Guest Faculty for Skill Development Programme organized by IPC-PvPI, MHF&W, Government of India at IPC at Ghaziabad, India on 12.11.2018.;

Department of Pathology

Dr. Ritu Kulshrestha Member Secretary of the Department of Health Research, GOI- ICMR-VPCI-Multidisciplinary Research Unit, at VPCI from April 2014 to 20 May 2019;s DST nominee to the Facility management committee of, “Sophisticated Analytical Instrument Facility (SAIF)”, New Delhi (AIIMS) from 10/8/2018 to 9/8/2021;As 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); As Councilor Member of the Asia-Australasian Pulmonary Pathology Society (AAPPS) since 2016.

Department of Physiology

Dr. Vishal Bansal was Member of the Editorial board of Journal of Krishna Institute of Medical Sciences (JKIMSU), published by Krishna Institute of Medical Sciences, Maharashtra, India.

## Publications

Patidar, B.S., Meena, A., Kumar, M., Menon, B.K., Rohil, V., & Bansal, S.K. (2018). Adenosine metabolism in COPD: A study on adenosine levels, 5'-nucleotidase, adenosine, adenosine deaminase and its isoenzymes activity in serum, lymphocytes and erythrocytes. *J COPD*, 15, 559-571.

Aggarwal, T., Wadhwa, R., Rohil, V., & Maurya, P.K. (2018). Biomarkers of oxidative stress and protein-protein interaction in chronic obstructive pulmonary disease. *Archives of Physiology and Biochemistry: The Journal of Metabolic Diseases*, 124(3), 226-231.DOI: 10.1080/13813455.2017.1387796.

Gupta, S., Kumar, A., Rohil, V., & Bhatnagar, A.K. (2019). ADAM33: Role and pathogenesis study in COPD in Delhi NCR Population. *International Journal of Biological & Medical Research*, 10(1), 6623 – 6630.ISSN: 0976:6685.

Gupta, S., Kumar, A., Rohil, V., & Bhatnagar, A.K. (2019). Role of tumor necrosis alpha (TNF $\alpha$ ) in pulmonary pathophysiology of chronic obstructive pulmonary disease. *Indian Journal of Public Health Research and Development* (Accepted)

Aditi, & Shariff, M. Nipah virus infection: A review. *Epidemiology and Infection* 2019, 147,e95, 1-6. DOI10.1017/S0950268819000086

Arendrup, M. C., Chowdhary, A., Astvad, K. M. T., & Jørgensen, K. M. (2018). APX001A In Vitro Activity against Contemporary Blood Isolates and *Candida auris* Determined by the EUCAST Reference Method. *Antimicrob Agents Chemother*, 62, pii: e01225-18.



Giri, A., Safi, H., Cabibbe, A. M., Gupta, S., Narang, A., Tyagi, G., Shrivastava, K., Kumar, C., Sharma, N., Lingaraju, S., Trovato, A., Bttaglia, S., Maria-Cirillo, D., Bose, M., David, A., & Varma-Basil, M. (2019). Lack of association of novel mutation Asp397Gly in aftB gene with ethambutol resistance in clinical isolates of Mycobacterium tuberculosis. *Tuberculosis*, 115,49-55

Bidaud, A.L., Chowdhary, A., & Dannaoui E. (2018). Candida auris: An emerging drug resistant yeast - A mini-review. *J Mycol Med*, 28, 568-573.

Buil, J., Hagen, F., Chowdhary, A., Verweij, P., & Meis, J. (2018). Itraconazole, voriconazole, and posaconazole CLSI MIC distributions for wild-type and azole-resistant Aspergillus fumigatus isolates. *J Fungi (Basel)*, 4, pii: E103.

Chowdhary, A., Prakash, A., Sharma, C., Kordalewska, M., Kumar, A., Sarma, S., Tarai, B., Singh, A., Upadhyaya, G., Upadhyay, S., Yadav, P., Singh, P.K., Khillan, V., Sachdeva, N., Perlin, D.S., & Meis, J.F. (2018). A multicentre study of antifungal susceptibility patterns among 350 Candida auris isolates (2009-17) in India: role of the ERG11 and FKS1 genes in azole and echinocandin resistance. *J Antimicrob Chemother*, 73, 891-899.

Chowdhary, A., Singh, A., Singh, P.K., Khurana, A., Meis, J.F.. (2019). Perspectives on misidentification of Trichophyton interdigitale/Trichophyton mentagrophytes using internal transcribed spacer region sequencing: Urgent need to update the sequence database. *Mycoses*, 62, 11-15.

Colley, T., Sehra, G., Chowdhary, A., Alanio, A., Kelly, S.L., Kizawa, Y., Armstrong-James, D., Fisher, M.C., Warrillow, A.G.S., Parker, J.E., Kelly, D.E., Kimura, G., Nishimoto, Y., Sunose, M., Onions, S., Crepin, D., Lagasse, F., Crittall, M., Shannon, J., McConville, M., King-Underwood, J., Naylor, A., Bretagne, S., Murray, J., Ito, K., Strong, P., & Rapeport, G. (2018). In vitro and in vivo efficacy of a novel and long-acting fungicidal azole, PC1244, on Aspergillus fumigatus infection. *Antimicrob Agents Chemother*, 62, pii: e01941-17.

Cortegiani, A., Misseri, G., Fasciana, T., Giammanco, A., Giarratano, A., & Chowdhary, A. (2018). Epidemiology, clinical characteristics, resistance, and treatment of infections by Candida auris. *J Intensive Care*, 6, 69.

de Groot, T., Hagen, F., Vreuls, W., Verweij, P. E., Chowdhary, A., & Meis, J. F. (2018). Genotyping of Aspergillus fumigatus in formalin-fixed paraffin-embedded tissues and serum samples from patients with invasive aspergillosis. *Front Cell Infect Microbio*, 8, 377.

Deepak, D., Singh-Rajput, M., Sharma, B., & Chowdhary, A. (2019). Allergic bronchopulmonary mycosis due to fungi other than Aspergillus. *Eur Ann Allergy Clin Immunol*, 51, 75-79.

Fakhim, H., Vaezi, A., Dannaoui, E., Sharma, C., Mousavi, B., Chowdhary, A., Meis, J.F., & Badali, H. (2018). In vitro combination of voriconazole with micafungin against azole-resistant clinical isolates of Aspergillus fumigatus from different geographical regions. *Diagn Microbiol Infect Dis*, 91, 266-268.

Fakhim, H., Vaezi, A., Dannaoui, E., Chowdhary, A., Nasiry, D., Faeli, L., Meis, J.F., & Badali, H. (2018). Comparative virulence of Candida auris with Candida haemulonii, Candida glabrata and Candida albicans in a murine model. *Mycoses*, 61, 377-382.

Healey, K.R., Kordalewska, M., Jiménez-Ortigosa, C., Singh, A., Berrío, I., Chowdhary, A., & Perlin, D.S. (2018). Limited ERG11 mutations identified in isolates of Candida auris directly contribute to reduced azole susceptibility. *Antimicrob Agents Chemother*, 62, pii: e01427-18.

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. *J Microbiol Methods*, 159,161-166.

Kiran, Beri., Jayanthi, G., & Shariff, M. Phenotypic and molecular characterization of extended- spectrum beta-lactamase producing clinical isolates of Klebsiella pneumoniae.(2018) *Int J scientific res*,7, 63-65.

- Khanna, M., Saini, S., Shariff, M., Ronsard, L., Singh, J. K., & Kumar, H. (2019) Data highlighting mir-155 and GAPDH correlation. *Journal of Data in Brief*. DOI: 10.1016/j.dib.2019.103945.
- Khurana, A., Masih, A., Chowdhary, A., Sardana, K., Borker, S., Gupta, A., Gautam, R.K., Sharma, P.K., & Jain, D. (2018). Correlation of in vitro susceptibility based on MICs and squalene epoxidase mutations with clinical response to terbinafine in patients with tinea corporis/cruris. *Antimicrob Agents Chemother*, 62, pii: e01038-18.
- Kordalewska, M., Lee, A., Park, S., Berrio, I., Chowdhary, A., Zhao, Y., & Perlin, D.S. (2018). Understanding echinocandin resistance in the emerging pathogen *Candida auris*. *Antimicrob Agents Chemother*, 62, pii: e00238-18.
- Kumari, A., Kumar, P., Sanicas, M., Meseko, C.A., Khanna, M., & Kumar, B. (2018). Advancements in Nucleic Acid Based Therapeutics against Respiratory Viral Infections. *Journal of Clinical Medicine*
- Kumar, B., Kumari, A., Khanna, M., Ronsard, L., Meseko, C.A., & Sanicas, M., (2018). The emerging influenza virus threat: status and new prospects for its therapy and control. *Archives of Virology*. DOI 10.1007/s00705-018-3708-Y
- Shariff, M., Aditi, & Beri, K. (2018) *Corynebacterium striatum*: an emerging respiratory pathogen. *J Infect Dev Ctries*, 12(7),581-586 doi:10.3855/jidc.10406.
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### **Journals 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.

The VPCI newsletter pending issues of July-Dec 2016 and Jan-Jun 2017 were published and distributed.

of college teachers serving as Editor(s)/Member(s)/ Editorial Board: 04.

Dr. Raj Kumar Editor-in-Chief; Dr. Malini Sheriff, Member; Dr. Balakrishnan Menon, Member; Dr. Anuradha Chowdhary, Member. Dr.Ritu Kulshresha, Editor, VPCI News Letter.

### **Research Projects**

Funded by ICMR in the year 2017. Carried out from 2017-2020. Isolation and characterization of anaerobic bacteria causing lower respiratory tract infections in patients attending VPCI, Delhi. With an amount sanction of Rs. 24.04 lakhs.

Funded by ICMR in the year 2015. Carried out from 2015-2018. Phenotypic and genotypic indicators of drug resistant tuberculosis: can they be used as early warning system for MDR and XDR tuberculosis? With an amount sanction of Rs. 62.34 lakhs.

Funded by ICMR in the year 2017. Carried out from 2017-2020. Multilocus microsatellite typing and antifungals profile of clinical *Cryptococcus neoformans* species complex isolated from patients of cryptococcosis. With an amount sanction of Rs. 13.13 lakhs.

Funded by AYUSH (CCRAS) in the year 2014. Carried out from 2014-2018. Evaluation of antiviral activity of medicinal plant extracts against influenza A virus. With an amount sanction of Rs. 23.04 lakhs.

Funded by DST- SERB in the year 2016. Carried out from 2016-2019. Aptamer-mRNA Chimera – the next generation RNA vaccine. With an amount sanction of Rs. 28.31 lakhs.

Funded by DST in the year 2015. Carried out from 2015-2018. Study of the transcriptional mechanisms underlying pulmonary fibrosis and their modulation by therapeutic agents. With an amount sanction of Rs. 43.00 lakhs.

Funded by NIF in the year 2017. Carried out from 2017-2018. Experimental studies to evaluate the mod of action of traditional herbal agents in bronchial asthma. With an amount sanction of Rs. 20.37 lakhs.

Funded by DBT in the year 2018. Carried out from 2018-2021. Smart regulation for antibiotic use in India: understanding, innovating and improving compliance. With an amount sanction of Rs. 21.47 lakhs.

Funded by AYUSH in the year 2015. Carried out from 2015-2018. A clinical study to evaluate the effects of yoga on pulmonary functions, cellular and molecular markers and quality of life in patients of bronchial asthma. With an amount sanction of Rs. 30.04 lakhs.

Funded by CCRUM, AYUSH in the year 2017. Carried out from 2017-2020. Experimental studies on the hepato-protective and immune modulatory effects of Dawa-ul-kurkum, a polyherbal Unani preparation, and its cellular and molecular mechanisms in rats. With an amount sanction of Rs. 23.57 lakhs

Funded by AYUSH in the year 2018. Carried out from 2018-2021. 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). With an amount sanction of Rs. 18.12 lakhs

Funded by DIPAS, DRDO in the year 2015. Carried out from 2015-2018. Development of exercise protocol to improve hypoxic tolerance. With an amount sanction of Rs. 50.00 lakhs

Funded by LSRB, DRDO in the year 2018. Carried out from 2018-2021. Cognitive performance after short duration sub-maximal exercise in young adults. With an amount sanction of Rs. 11.62 lakhs

Funded by ICMR in the year 2015. Carried out from 2015-2018. Indoor air pollution and asthma exacerbation in children: a population based study. With an amount sanction of Rs. 180.00 lakhs.

Funded by MOHFW, GOI in the year 2015. Carried out from 2015-2018. National Tobacco Quit Line Services. With an amount sanction of Rs. 382.41 lakhs.

Funded by ICMR in the year 2017. Carried out from 2017-2018. Effect of outdoor air pollution on acute respiratory symptoms in Delhi: A multisite project. With an amount sanction of Rs. 43.43 lakhs.

Funded by DST in the year 2016. Carried out from 2016-2019. To investigate the role of J-receptors as a primary causative factor leading to dyspnea on exertion in patients with pulmonary hypertension 1 (i) with and (ii) without atrial septal defect and (2) with connective tissue disease. With an amount sanction of Rs. 14.13 lakhs.

### **Seminars Organised**

20th Raman Vishwanathan VPCI Oration on “Sarcoidosis: Not an unknown disease” was organized by VPCI, Apr. 2018.

A workshop on Quality Laboratory Services for laboratory staff was organized by the National Centre of Respiratory Allergy, Asthma and Immunology(NCRAAI) of VPCI on Apr. 2018.

The 43rd Workshop on Respiratory Allergy: Diagnosis & Management” was organized by VPCI June ,2018.

Continuing Medical Education (CME) Programme on “Mapping the footprints of NTM infection: the neglected mycobacterial diseases” was organized by VPCI on Nov., 2018

Public Awareness Programme on “Smoking and Lung Health” was organized by VPCI Dec., 2018

Basic Fire Fighting Awareness programme for the staff was organized by VPCI on Jan., 2019.

Institute Day and The 5th Dr. H.S. Randhawa Oration delivered by Prof. Yogendra Singh, Department of Zoology, University of Delhi on the topic Tuberculosis Are we losing the battle? organized by VPCI Jan., 2019.

Workshop to Develop Capacity of Pharmacists for Optimal Use of Antibiotics was organized by VPCI Feb., 2019.

## **Conferences Organised**

An International Postgraduate Technical Workshop on “Antifungal Resistance in significant human pathogenic Fungi” was organized by VPCI in collaboration with the European Society of Clinical Microbiology & Infectious Diseases. Sept. 2018.

“1st Update on Allergen Immunotherapy” in collaboration with Dept of Allergology, University Hospital Munster, Munster, Germany. Mar., 2019

## **Seminar/Conference Presentations**

Anuradha Chowdhary

Guest lecture entitled “Identification and antifungal susceptibility of *Candida auris*”. 20th Congress of the International Society for Human and Animal Mycology (ISHAM) RAI Amsterdam, the Netherlands, July, 2018.

Presented lecture entitled “Fungal human pathogens: from obscure significance to impending disasters at 11th International Mycological Congress, San Juan, Puerto Rico, July, 2018.

Presented a Guest lecture entitled, “Changing epidemiology of nosocomial fungal infections 17th Asia Pacific Congress of Clinical Microbiology and Infection cum 8th International Infection Control Conference., Hong Kong Aug., 2018.

Presented a Guest lecture entitled, “New Insights in epidemiology of *Aspergillus fumigatus*” Continued Antifungal Research & Education, Vienna, Austria, Oct., 2018.

Presented a Guest lecture entitled, “Natural Disasters and Mycosis” at the 3rd Forum on Fungal Infections in the Middle East, Dubai, UAE. Nov., 2018,

Presented a plenary lecture entitled, “The emerging problem of untreatable severe superficial dermatophytosis due to emerging resistance in India”. 14th Annual fungal Update, Mar. 2019, Westminster, London.

Anita Kotwani

Invited to participate in the Fifth Global Symposium on Health Systems Research held in Liverpool, UK. Oct., 2018

Speaker for one of the Session on Engaging with Private providers in Low and Middle Income Countries – Strengthening Quality of Care and Effective Regulations.

Invited by UK Research Innovation for the launch of UK Research and Innovation India, and to celebrate the shared success of India-UK Research and Innovation partnership, Inaugural plenary followed by panel discussions. Oct., 2018.

Invited by Department of Pharmacology, PGI, Chandigarh to participate in monthly meeting of Antimicrobial Stewardship program activities. Nov., 2018.

Invited as a speaker “Need for smart regulations in antibiotic use” by Dr. and Head Department of Infectious Diseases and Chair of Antimicrobial Stewardship Program of Christian Medical College, Vellore to participate in their quality circle meeting to be held on Dec., 2018.

Invited by organizers of 70th IPC conference to speak during AMR symposium on “Antimicrobial Resistance and Smart Regulation of Antibiotic Use” Dec., 2018.

Invited by organizers of 7th Pan Commonwealth Veterinary Conference to present a talk during AMR session on, “Smart regulation of antibiotic use in India: One health approach”, Held in Bangalore, March, 2019.

Kavita Gulati

Delivered Guest lecture on “Role of immune system during stress-induced gastric ulcerogenesis: strategies for gastric cytoprotection” in an GI-Symposium organized by ISCTICO, IUPHAR-GI, , Kyoto, Japan June, 2018.

Guest lecture on “Pharmaco-vigilance: Basic concepts & Application organized” in a conference organized by Hamdard Institute of Medical Science and Research, Jamia Hamdard, New Delhi .Aug., .2018.

Delivered Guest lecture on “Assessment of ADRs: Clinical relevance and Management- Basic and Regulatory Aspects of Pharmacovigilance: Optimizing Medicine safety is our goal” in a skill development programme organized by IPC-PvPI, MHF&W, Government of India at IPC at Ghaziabad, India. Nov.,2018.

Delivered Guest lecture on “Yogic intervention in the management of bronchial asthma” in a symposium on Recent Trends in Pharmacology Research organized by Delhi Pharmacological Society at Symposium, AIIMS, New Delhi. Dec., 2018.

As Chairperson and guest lecture on “Theophylline induced cardiotoxicity and its mechanisms: A translational approach” in an International Conference on Translational Research in Cardiovascular Sciences organized by IACS-INDIA at Bengaluru, India. Feb., 2019.

Mandira Varma Basil

Guest lecture at the TB CME, PGI, Chandigarh, April.

Guest lecture at the World Congress on Antibiotics, Rome, Italy, Meetings International, Antibiotics 2018; August 2018.

Guest lecture at the Mapping the footprints of NTM infection, VPCI, Delhi, 1st November, 2018 Vallabhbbhai Patel Chest Institute and Delhi Chapter, IAMM.

Ritu Kulshrestha

As Resource Person on “Interpreting Pathology in ILD: What Every Physician Should Know” and as ‘Pannelist in the MDD Session’ 20th National Conference on Pulmonary Disease (NAPCON) 2018 20th National Conference on Pulmonary Disease (NAPCON) 2018 workshop on Interstitial lung disease at Ahmedabad, Gujarat. Nov., 2018.

As Resource Person on, “Pathologists on Panel for Break-Out Practical Workshop -Clinical Cases” Diffuse Lung Disease – Update 2018, held at Hyatt Regency, New Delhi, on 8 Sept., 2018.

As Resource Person on “Interesting cases of Molecular Diagnosis of Lung Cancer” Organized by Department of Pathology, Subharti Medical College, Swami Vivekanand Subharti University, Meerut UP CYTOCON 2018, 6th Annual Conference of UP Chapter of Indian Academy of Cytologists. Sept. 2018.

As Resource Person on “Potpourri of interesting cases and diagnostic traps in broncho-pulmonary cytology” Organised by Division of Cytopathology National Institute of Cancer Prevention & Research, Noida, CME on Gray Zones and Recent Updates in Breast, Thyroid, Bronchopulmonary and Cervical Cytology. June 2018.

Raj Kumar

Delivered Guest Lecture on Expansion of National Tobacco Quitline during World No Tobacco Day Conference at New Delhi, June. 2018.

Delivered Guest lecture on Current issues in diagnosis and treatment of sarcoidosis organized by Chest Care and Research Society, Era’s Lucknow Medical College and Hospital, Lucknow and UP Tuberculosis Association

National CME on ILD held at Lucknow on May , 2018.

Delivered lectures on Allergy diagnosis: in-vivo; Mites and its allergens: its concentration and clinical relevance; Key factors to be considered before initiation of AIT and management of polysensitized patients; Setting-up an Allergy Clinic; Hands on Practical Training – SPT during 43rd Workshop on Respiratory Allergy: Diagnosis and Management organized by VPCI, June, 2018.

Delivered Guest lecture on Smoking cessation – need of the hour at the RESPICON INDIA 2018 organized at New Delhi on November 2, 2018.

Delivered Guest lecture on Lung health at the 50th Union World Conference on Lung Health at New Delhi on Nov., 2018.

As Chairperson in Symposium on Allergy and aerobiology and delivered Guest lectures on Use of smartphone apps for smoking cessation, Food allergy: an overview, Prevention/prescription, Setting up allergy clinic at the 20th Joint National Conference of the National College of Chest Physicians (NCCP) and Indian Chest Society (ICS) NAPCON – 2018 jointly organized by Gujarat University, NCCP, ICS at Ahmedabad . Nov., , 2018.

Delivered Guest lecture on Smoking and lung health at Public Awareness Programme jointly organized by VPCI and Society for Tobacco Control on Dec., 2018.

As Chairperson and delivered Guest lecture on Environmental pollution and human health hazards at the International Conference on Global Environmental Challenges Human Health and Sustainable Development organized by JNU, New Delhi . Jan., 2019.

As Chairperson at the Workshop to Develop Capacity of Pharmacists for Optimal Use of Antibiotics organized by VPCI .Feb., 2019.

S.K. Bansal

Delivered lecture entitled “Ethics in Biomedical Research Involving Human Participants” in the CME Programme on ‘Mapping the Footprints of NTM Infection: The neglected mycobacterial disease organized by VPCI, Delhi.

Anuradha Chowdhary/ Cheshta Sharma “Genomic perspective of triazole resistance in *Aspergillus fumigatus* isolates without *cyp51A* mutations using Whole-Genome Sequencing”. 20th Congress of the International Society for Human and Animal Mycology (ISHAM) RAI Amsterdam, the Netherlands, June-July, 2018.

Anuradha Chowdhary/ Ashutosh Singh, “Emergence of clinical and mycological resistance in Trichophyton interdigitale infections in North India”. 20th Congress of the International Society for Human and Animal Mycology (ISHAM) RAI Amsterdam, the Netherlands, June- July, 2018.

Anuradha Chowdhary/ Ashutosh Singh, “Fluconazole resistance in *Candida parapsilosis* in India and analysis of sterol biosynthesis gene (*ERG11*)”. 20th Congress of the International Society for Human and Animal Mycology (ISHAM) RAI Amsterdam, the Netherlands, June-July, 2018.

Anuradha Chowdhary/ Ashutosh Singh, “K143R amino acid substitutions in azole target Erg11 protein directly contribute to reduced fluconazole susceptibility in *C. parapsilosis* clinical isolates: results from laboratory-based surveillance in India”. Indian Association of Medical Microbiologists (IAMM) Delhi Chapter. Max Super Speciality Hospital, Saket, Apr., 2019.

Anuradha Chowdhary/ Ashutosh Singh, presented a poster entitled, “Terbinafine resistance predominately due to L397F mutation in Squalene Epoxidase (*SQLE*) gene in clinical isolates of Trichophyton species in India”. Indian Association of Medical Microbiologists (IAMM) Delhi Chapter. Congenital and perinatal infections, Max Super Speciality Hospital, Saket, Apr., 2019.



Anuradha Chowdhary/ Pradeep Kumar Singh, Role / Topic- presented a poster entitled, “In vitro activity of the new antifungal drugs olorofim (F901318) and topical azoles, luliconazole and sertaconazole, against molecularly characterized clinical *Penicillium* and *Talaromyces* isolates”.20th Congress of the International Society for Human and Animal Mycology (ISHAM) RAI Amsterdam, the Netherlands, June, 2018.

Anuradha Chowdhary/ Pradeep Kumar Singh, poster entitled, “Evaluation of species diversity among Indian clinical *Schizophyllum commune* using matrix-assisted laser desorption ionization–time of flight mass spectrometry and MLST”.20th Congress of the International Society for Human and Animal Mycology (ISHAM) RAI Amsterdam, the Netherlands, June-y, 2018.

#### **Other Inter-Institutional Collaboration**

All India Institute of Medical Sciences, New Delhi;Lady Hardinge Medical College,, New Delhi.;ardhman Mahavir Medical College & Safdarjung Hospital, New Delhi;SRM University, Delhi-NCR, Sonapat, Haryana;Rajan Babu Institute for Pulmonary Medicine & Tuberculosis (RBIPMT), New Delhi;Centre for Disease Dynamics and Economic Policy & Amity University and National Institute of Animal Biotechnology;Central Council for Research in Unani Medicine, Ministry of AYUSH;Institute of Nuclear Medicine & Allied Sciences, DRDO, Delhi;CIC, University of Delhi.Defence Institute of Physiology and Allied Sciences, DRDO, DelhiCSIR-IGIB (Institute of Genomics and Integrative Biology), Delhi.

#### **Placement Details**

Number and percentage of students placed	...	100 %
Number of Companies visited for campus recruitment	...	-NA-

#### **Faculty Strength: 14**

#### **Other Significant Information**

Dr. Neha Koushik (MD Student) was awarded 1st prize in NCCP quiz held in January 2018 at Indian Habitat Centre, New Delhi,

Dr. Neha Koushik (MD Student) received the 3rd prize during Quiz conducted in Pulmocon-2018 at New Delhi.

Dr. Naveen Vennilavan. R (MD Student) was awarded 3rd Prize in poster presentation in the Conference on Obstructive Airway Diseases and NIV held in February at PGIMS, Rohtak.

Dr Lovika Lakhtakia (MD student) was awarded 1st prize for oral presentation at NAPCON-2018 held in December 2018 at Ahmedabad.

Over a dozen papers were presented by VPCI students during the NAPCON-2018 held in December 2018 at Ahmedabad including Dr. Naveen Vennilavan, Dr. Neha Kaushik, both MD students and Mr. Anil Kumar Mavi and Mr. Kamal Singh, both Phd students.

Dr. Neha presented poster in APSR-2018 Congress held in November at Taipei, Taiwan.

Mr. Anil Kumar Mavi, Ph.D Student, presented oral presentation at WAO International Scientific Conference held in December 2018 at Florence, Italy.

#### **Library Development**

The Institute has one of the best library in the field of Pulmonary Disease and Allied Sciences having 10100 Books, 25025 bound Journals, 175 CD's, 570 Thesis and 27 National and International Reports. A total 16 Journals (06 International and 10 National) are being received on exchange programme with the Institute's Journal and 03 Journals (02 International and 01 National) are received on complimentary basis. VPCI is a member of National Level ERMED Consortium (e-journals) for the Calendar Since year 2018. ERMED Consortium subscribed 239+ e-journals from five publishers. All e-journals are configured on Static IP / IP's of our Institute. Library initiates appropriate efforts from time to time to create awareness among staff,

research scholars, students, etc. to enhance maximum utilisation of e-journals through customised e-journals gateway <http://www.erned.in> and benefit of access/download of articles from the 'Cochrane Library'. The Internet services have been provided right on the desktop of each Faculty Member through DUCC network /LAN and a separate Leased line connectivity (VPCI) with 10 Mbps from MTNL. Library also provides inter-library loan facilities and reprographic services on demand. The Library follows an open Access system. Library is equipped with modern information technology equipment's and continues to provide Internet/ e-mail services to the users to access CAS (Current Awareness Services) and SDI (Selective Dissemination of Information) services. These are provided to the users in the form of online/offline through e-mail and/or in print during the year. Library uses "LibSys 4.0" Library Management Software, which is an integrated multi-user library management system that supports all in-house operations of the Library. The 'LibSys' consists of modules on acquisition, cataloguing, circulation, serials, article indexing and OPAC.

#### Financial Allocation and Utilization

Grant sanctioned Rs. 62.00 Crores

Utilized Rs. 62.00 Crores

#### Participation in Advanced and Specialised Training Programme by Faculty Members

Dr Ritu Kulshrestha (Pathology) participated in PD-L1 (SP263) Pathologist Training Workshop for NSCLC hosted by Roche Diagnostics India Pvt. Ltd, Delhi. Oct., 2018.

Dr Kavita Gulati (Pharmacology)

Participated in Pharmacovigilance Program for Ayurveda, Siddha, Unani and Homoeopathy Drugs / Basic introduction and concept of ASU-H Pharmacovig hosted by Indian Pharmacopoeia Commission (IPC), Ghaziabad (Uttar Pradesh) Mar., 2019.

Participated in AMC Coordinator Meet-cum- Advanced Training Program for Patient Safety Pharmacovigilance Associates (PsPvAs) hosted by ADR Monitoring Centres (AMCs) of North Region, PGIMER, Chandigarh. Dec., 2018.

Dr Dr Uma Tyagi (Library) participated in Library Automation and Networking hosted CSIR-National Institute of Science Communication and Information Resources (CSIR-NISCAIR) .Nov.- Dec., 2018.

#### Short-term Specialized Training Imparted by Faculty Members

Dr. S. K. Bansal (Biochemistry)

Provided training on Techniques in biochemistry to Mr Sudhanshu Sharma MSc (Biochemistry) Galgotias University, Greater Noida, Uttar Pradesh, Ms Avjeet Kaur & Ms Pooja Bansal M.Sc (Biotechnology) Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Haryana from June 1 - July 13, 2018.

Provided training on Techniques in biochemistry to Ms Nisha Kaushik M.Sc (Biotechnology) Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Haryana from June 14 - July 13, 2018.

Dr Vishwajeet Rohil (Clinical Biochemistry)

Provided training on Clinical Biochemistry/Biotechnology to Ms. Santripta Bhowmik BSc (Hons) (Biotechnology) Amity Institute of Biotechnology, Amity University Noida (UP) from May 15 - June 6, 2018.

Provided training on Clinical Biochemistry/Biotechnology to Ms Vani Shree BTech (Biotechnology) Jaypee Institute of Information Technology, Noida from June 1 – July 16, 2018.

Provided training on Clinical Biochemistry/Biotechnology to Ms Parul Khatri & Ms Richi Kushwaha MSc (Biotechnology) Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Haryana) from June 1 – Aug., 31, 2018.

Provided training on Clinical Biochemistry/Biotechnology to Ms Sanyogita Rai Ms Gunjan MSc. (Biotechnology) Institute of Applied Medicines and Research, Ghaziabad (UP) from June 1 – July 31, 2018.

#### Distinguished Visitors

Sh. JP Nadda, Union Minister of Health & Family Welfare, Government of India.

Dr. Address Mauakowa Malata, Vice Chancellor of Malawi University of Science & Technology, Malawi, South-eastern Africa.

Dr. Sanjib Bhatia, ISMB-Mycobacteria Research Laboratory, Birkbeck University of London, United Kingdom.

Dr. Randeep Guleria, Director, All India Institute of Medical Sciences, New Delhi.

Dr. A.K. Jain, Professor of Excellence, Department of Physiology, Maulana Azad Medical College, New Delhi.

Dr. Achal Gulati, Director-Principal, Dr Baba Sahaeb Ambedkar Medical College and Hospital, Delhi.

Dr. J.C. Suri, former Consultant, Professor and Head, Department of Pulmonary, Critical Care and Sleep Medicine, VMMC and Safdarjung Hospital, New Delhi. Dr. Yogendra Singh, Department of Zoology, University of Delhi, Delhi.

Dr. Surender Kashyap, Director, Kalpana Chawala Medical College, Karnal.

Shri Praveen Sinha, National Professional Officer, World Health Organization, New Delhi.

Dr. Manoj Khanna, Principal, Ramjas College, University of Delhi.

Dr. Vibha Singh Chauhan, Principal, Kirori Mal College, University of Delhi.

Dr. Simrit Kaur, Principal, Sri Ram College of Commerce, University of Delhi.

Dr. Vipin Aggarwal, Principal, Sri Aurobindo College, University of Delhi.

Dr. Daman Saluja, Director, Ambedkar Center for Biomedical Research, University of Delhi.

Shri Sanjeeva Kumar, Additional Secretary (Health), Ministry of Health & Family Welfare, Government of India.

Dr. Jagdish Kaur, Regional Adviser, Tobacco Free Initiative, WHO Regional Office for South-East Asia, New Delhi.

Dr. BL Sherwal, Director, Director, Rajiv Gandhi Super Specialty Hospital, New Delhi.

Dr. Rohit Sarin, Director, National Institute of Tuberculosis & Respiratory Diseases, New Delhi.

#### **Cultural and Sports Activities**

The Institute conducted the VPCI Sports & Cultural Activity Programme. The Sports events include: Musical Chair, Table Tennis, Badminton, Bench Press (Weight Lifting), Carom and Chess; and the Cultural events include: Play, Dance, Vocal Music, Instrumental Music and Poem Recitation. VPCI Sports & Cultural Activity – 2018 was held on 26th December 2018 and prizes were distributed to the winners of the events.

#### **Additional information**

Following MCI's approval in June 2018, VPCI has resumed admission to the 2 seats of super-speciality course, DM in Pulmonary Medicine. Two students have joined during 2018-21 session and the course is running successfully.

On 18th June 2018 a new “Patient Registration Hall” was inaugurated at Viswanathan Chest Hospital to facilitate waiting patients.

Shri J.P. Nadda, Hon’ble Union Minister of Health & Family Welfare, Government of India, was the Chief Guest, inaugurated the “Daily Digital Pollen Count Information for Public” installed at Gate Nos 1 & 4 of the Institute. The digital display board at the institute will enable people with chronic allergies to be better prepared for a dusty or pollen day on the road. It will also help create awareness about pollen concentration in the air, which is one of the major reasons for repeated attacks in asthma patients.

The 4th International Day of Yoga was celebrated on 21st June 2018. A yoga session was organized in the basement of Auditorium wherein people from all walks of life participated and learnt yoga techniques.

The Patient Education Centre (PEC) inaugurated on 12.01.2018 in the hospital premises offered access to audio-visual and printed educational materials to the patients and visitors of the hospital in the area of respiratory diseases and their effective management.

The patient kitchen of VCH has been renovated and inaugurated on 15th October 2018.

Department of Biochemistry conducted studies on erythrocyte membrane protein profile of asthmatics and healthy controls which showed the presence of 97 proteins consisting of  $\geq 2$  unique peptides. Further analysis showed several PTMs (phosphorylation and acetylation) in 9 proteins, which may be responsible for cellular activities including biological processes, metabolic functions, cell morphology, shape and size etc. They were distinctly present or absent in different phenotypes of asthma. The protein-protein interactions analysis showed glyceraldehyde 3 phosphate dehydrogenase to be an important protein, which is known to play an important role in glycolysis and in maintaining the balance between oxidant and antioxidant status in asthma.

Department of Microbiology at VP Chest Institute is actively involved in diagnostics, teaching and research. A number of diagnostics 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 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. Virology is actively involved in influenza virus diagnostics and epidemiological research. Major focus of laboratory is antiviral research and Vaccines development against influenza and chikungunya virus.

The VPCI-DHR-ICMR- Multi-disciplinary research unit (MRU) was established and made functional at V.P. Chest Institute during the year 2015-16. This MRU is a part of the Government of India initiative for establishment of multi-disciplinary research units in Government medical colleges/research institutions during the 12th Plan period. The MRU was involved in Designing of Inhalation based polymeric nanoparticle drug delivery systems for the treatment of lung fibrosis; bFGF/FGFR-1,2 signaling pathway during the remodeling of pulmonary extracellular matrix.

Department of Physiology provided 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 patients.

Department of Pulmonary Medicine (incl. Cardio-respiratory Physiology and Respiratory Allergy and Applied Immunology) is involved in the patient care (Outdoor and Indoor) at Viswanathan Chest Hospital (VCH), the clinical wing of VPCI. The faculty is involved in individual research and thesis work on different aspects of respiratory diseases as well as teaching of the postgraduate students in the subject – Pulmonary Medicine (DM, MD and DTCD) of University of Delhi. The research topics included – Anthracotic pigment in transbronchial lung biopsy: an innocent bystander or pathogenic agent for parenchymal lung disease; Consensus statement for the diagnosis and treatment of idiopathic pulmonary fibrosis in resource- constrained settings; National Tobacco Quitline Services – A comparative study of prevalence of smoking and smokeless tobacco use in India: a brief one-year report; 4 Asthma control test and correlation with spirometry and inflammatory markers in asthma patients at a tertiary care centre in India; Demographic profile, smoking cessation interventions and continuous abstinence of tobacco users at two years; 6 Joint Indian Chest Society-National College of Chest Physicians (India) Guidelines for Spirometry, etc.

Department of Respiratory Allergy & Applied Immunology was involved in research work on Prevalence of aeroallergens in patients of bronchial asthma and/or allergic rhinitis in India based on skin prick test reactivity; Identification of airborne pollens in Delhi; National Tobacco Quitline: The Preliminary Indian Experience.

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## FACULTY OF MUSIC AND FINE ARTS

### DEPARTMENT OF MUSIC

#### Major Activities and Achievements:-

The Department of Music and Fine Arts organized various workshops and diverse programmes covering International Yoga day, music forms like Karnataka music, Job oriented education in music, Western classical music, and Hindustani Music. Mallahar Utsav, 2018 was organized for two days on 30-31 August, 2019 to 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. Students of Music department also made a musical presentation during Percipience – The Eminent Alumni Lecture Series organized by University of Delhi.

#### Honours/Distinctions:

Prof. Anupam Mahajan was awarded Sangeet Shree, ABP award, New Delhi.

Prof. Deepti Omchery Bhalla was awarded Make In India Award by Bharat Nirman, New Delhi

Prof. P.B. Kannakumar was awarded Sangeet Ratnakar Award by Karnataka Sangita Sabha, New Delhi

Prof. T.V. Manikandan was awarded Sangeet Ratnakar Award by Karnataka Sangita Sabha, New Delhi

#### Publications:

Bhalla, Deepti Omchery. (March 2019). Reflections of Balarama Bharatam in Mohiniattam, *Journal of Sangeet Natak Akademi*, New Delhi

Bhalla, Deepti Omchery. (Nov., 2018). Editor, Sangit Darpan, *Swarbharati Journal, Bharatiya Vidya Bhawan*, New Delhi

Kasliwal, Suneera (2018). Vadya Adhyaya, Sangita Parijat, *Swarabharti Journal, Bhartiya Vidya Bhawan*., New Delhi

Mahajan, Anupam (2018). Ahobal Ki Vikriti Swar Vyavastha, Sangit Parijat, *Swarbharti Journal, Bhartiya Vidya Bhawan, New Delhi*

Mahajan, Anupam (2018). Ideational Aspects of Indian Ragas, Wisdom Speaks, Vol.3.

**Journals: 1**

Vageeshwari (September 2018 is under the process of publication)

**Number of Department teachers serving as Editors/Members of the Editorial Board: 9**

**Seminars/Workshops organized -12**

Workshop on Yoga to celebrate International Yoga Day on 21<sup>st</sup> June 2018.

An Interactive Session featuring Vidushi Shanno Khurana in Conversation with Vidushi Krishna Bisht was on 17<sup>th</sup> Aug., 2018.

A workshop by Exponent Shri Vaidyanathan Suresh from Chennai on KURAIPPU-South Indian Talas (Karnatak Music) on 29<sup>th</sup> Sep., 2018.

Sadhyan programme on 16<sup>th</sup> January, 2019.

Ninad Audio-Visual Presentation on the life of Lt. Pt. Nikhil Banerjee on 28<sup>th</sup> January, 2019.

Short Term Courses celebrating 10 years of Imparting Job-oriented Education in Music on 29<sup>th</sup> January, 2019.

Workshop on Sadguru Tyagaraja Aradhana group rendition of Ghanaraga Pancharatna conducted by Prof. T.V. Manikandan on 14<sup>th</sup> Feb, 2019.

Workshop on Western Classical Music by Prof. David Claman on 26<sup>th</sup> February, 2019.

Workshop on Karnatak Music by Vidushi. V. Radha on 7<sup>th</sup> March, 2019.

Workshop by Dr. Jayant Khot on Tappa (Hindustani Music) on 8<sup>th</sup> March, 2019.

Workshop by Dr. S. Sowmya on Chindusi Karnatak Music on 12<sup>th</sup> March, 2019.

**Conference Organized:**

The Malhar Utsav 2018 was organised by the Department of Music. An annual two day festival of Indian classical music, organised by the Dept. of Music, University of Delhi, organised each year in the months of August-September. It 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, Dept. of Music, University of Delhi on 30 August – 31 August, 2018, which was inaugurated by Prof. Yogesh Tyagi, Vice Chancellor, University of Delhi & the Guest of Honour by Vidushi Shovana Narayan, Eminent Kathak Danseuse, Padma Shri Awardee, Illustrious alumni of the University of Delhi.

**Extension and Outreach Activities:**

The Department presented a programme at the Inaugural function of Percipience – The Eminent Alumni Lecture Series, with a lecture by Dr. Bibek Debroy, Chairman, Economic Advisory Council to the Hon'ble Prime Minister & Member, NITI Aayog, Friday, 8<sup>th</sup> Feb., 2019 in the Convention Hall, Vice-regal Lodge, University of Delhi.

**Number of Ph.D. /M.Phil. Awarded:**

Ph.D. - 8

M.Phil. – 22

**Faculty Strength**

Sanctioned strength: 41

Total teachers working:	25
Professor:	10
Associate Professor:	0
Assistant Professor:	6
Asst. professor (ad-hoc):	9
Guest lecturer:	6

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## FACULTY OF SCIENCE

### ANTHROPOLOGY

#### Major Activities and Achievements

The Department of Anthropology, University of Delhi, featured in the top 100 in QS global ranking-2019. It is the only Department from the University of Delhi, and the only Anthropology Department in India to have achieved this distinction.

#### Honours / Distinctions

Dr. KN Saraswathy was felicitated for contribution in the field of Education by the Government of Andhra Pradesh in association with Telugu Employees Welfare Association, Delhi on International Women's day, 8th March, 2019

Prof. PC Joshi received Lifetime Achievement Award from Department of Anthropology, Panjab University, Chandigarh, February 28, 2019.

#### Publications

Chattopadhyaya, I. (2019). *Archaeological Anthropology: An Introduction to Prehistory*. Indian Books and Periodicals.

Dhall, M., Kapoor, S. (2018). *Dynamism of Physical Activity Pattern and Lifestyle Diseases*. Delhi: Dhanraj Book House.

Dhall, M., Tyagi, R., Kapoor, S., Kapoor, A. K. (2019). *North-East India: Issues and Challenges*. Delhi: Bookwell Publisher.

Dhall, M, Tyagi, R., Tungdim, M. G., Kapoor, A. K. (2019). *Globalisation of Indian Tribes: Past, Present and Future Dynamics*. Delhi: Bookwell Publisher.

Chophy, G.K., Zhimo, A.G. (2018). The Case of Naga Tribal Bodies in a Fledgling Democratic Set-up. *Economic & Political Weekly*. 53(32), pp 18-21

Das, S., Chandel, S. (2018). Frailty pattern among the elderly rural women of India. *Indian Journal of Gerontology*. 32 (2), pp138-148.

Devi N.K., Longkumer I., Chandel S., Mondal P.R., Saraswathy K.N. (2018). No Effect of High Physical Activity on Body Mass Index Among Bhil Tribal Population in India. *Online J Health Allied Scs*. 17(2):2.

Dhall, M., Kshetrimayum Surmala Devi, Nilupher, Gupta, U., Tyagi, R., Kapoor, S. (2018). Hypertension and its correlate with general and central adiposity: A study among urban population of Delhi. *Diabetes & Metabolic Syndrome: Clinical Research & Review*.

- Dhall, M., Kapoor, A.P., Bhasin, P., Kapoor, S. (2018). Patterns of physical activities influencing cardio vascular and respiratory functions. *International Journal of Medical and Health Sciences*.7(2): 47-52.
- Feroz N., Dhall M., Kapoor S. (2019). Hereditary contribution towards development of type 2 diabetes mellitus among Indian population. *Diabetes Res Open J*, 5(1), pp18-22.
- Feroz, N., Dhall, M., Kapoor, S. (2018). Lifestyle and diabetes among Muslim population of Manipur. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*.
- Garg, S. and Gupta V. (2018). Risk factors of low bone mineral density. *Voice of Intellectual Man*, 8(1), pp 137-148.
- Ghosh, P., and Mahajan, C. (2019). Inequality, Politics and Exploitation in a Rajasthan Village". In Utpal Kumar De and Manoranjan Pal (Eds.), *Development and Deprivation in the Indian Sub-continent*. Delhi: Routledge with Levant Books, pp. 411-419.
- Gupta, V., Sachdeva, M.P., Walia, G.K. (2019). "Mendelian randomization" approach in economic assessment of health conditions. *Public Health*.
- Gupta, V., Saxena, R., Walia, G.K., Aggarwal, T., Vats, H., Dunn, W., Relton, C., Sovio, U., Papageorgiou, A., Smith, G.D., Khadgawat, R., Sachdeva, M.P. (2019). Gestational route to healthy birth (GaRBH): protocol for an Indian prospective cohort. *BMJ Open*. 9(4).
- Gupta, V., Kumar, A., Sharma, L., Bhatia, K., Walia, G.K. (2018). Association of *TAS2R38* polymorphism in influencing body mass index in Indian population. *Meta Gene* (Elsevier), 18, pp 68-72.
- Gupta, V., Sachdeva, M.P. and Walia, G.K. (2019). "Mendelian Randomization" approach in economic assessment of health conditions. *Frontiers in Public Health*, 7:2.
- Joshi, P.C. (2019). Exploring Prescriptions: Assessing P.O. Boddington's Contribution. In Ranjana Ray (ed.) *Tribal Health Care System: A Tribute to P.O. Boddington*. The Asiatic Society, Kolkata. pp. 80-99.
- Joshi, P.C. and Srivastava, V.K. (2019). Culture, Mythology and Religion. In Chadda, R.K., Kumar, V. and Sarkar, S. (eds.) *Social Psychiatry: Principles and Perspectives*. New Delhi. Jaypee Brothers, Medical Publishers. pp. 130-138.
- Joshi, P. C. and Vashist, N. (2018). Illness, Health and Culture: Anthropological Perspective on Ethnomedicine in India. In Misra, G. (eds). *Psychosocial Intervention for Health and Well being*. Springer, pp. 227-240.
- Joshi, P. C. (2018). Sustainable Development and India. *World Focus*. No. 464: 13-16.
- Kaur, G., Gaur, R., Yadav, S., and Saraswathy, K.N. (2018). Association of vitamin B12 mediated hyperhomocysteinemia and methylenetetrafolatereductase (C677T) gene polymorphism with cognitive impairment: A population based study from North India. *Psychiatry research*, 270: 123-125.
- Kaur, G., Gaur, R., Thakur, M.K., and Saraswathy, K.N. (2018). Depression and one carbon metabolic pathway: A study among a Mendelian population from North India. *Current Psychology*, 1-7
- Kaur, L., Garg, P.R., Ghosh, P.K., and Saraswathy, K.N. (2018). Impaired Homocysteine Metabolism Associated with High Plasma Interleukin-17A Levels, a Pro-Atherogenic Marker, in an Endogamous Population of North India. *Ethnicity & Disease*, 28(4): 525-530
- Kaushal, S. and Joshi, P.C. (2018). Ecosystem and Religion in the Himalayas. *World Focus*. No. 464, pp 66-70.
- Kshatriya, G.K. (2019). Alu insertion-deletion polymorphisms in the Tibeto-Burman speaking tribal groups of Manipur, North-East India. *Gene Reports*, 15: 1-5.



- Kshatriya, G.K. (2019) Demographic and cultural factors affecting fertility levels: A study among Santal Women in PurbiSinghbhum district, Jharkhand. *In Anthropology and Health. Ed. Rashmi Sinha, Rawat Publications, New Delhi*, pp.190-198
- Kshatriya, G.K. (2019).Adiposity markers and its association with age at menarche: A comparative study among rural and urban Meitei females of Manipur, North-East India *Diabetes & Metabolic Syndrome: Clinical Research & Reviews* 13, pp 500-503.
- Kumar, A., Walia, G.K., Sachdeva M.P., Gupta V. (2019). Genetics of non alcoholic fatty liver disease in Asian populations. *Journal of Genetics (Springer Nature)*, 98: 29.
- Kumari, S., Sharma, N., Mishra, J., Saraswathy, K.N., Sagar, S.K., & Mondal, P.R. (2019). General obesity and Cardiovascular diseases among Gaur Brahmin population of NCR/Delhi. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*.13(2): 1335-1339.
- Mangla, A. G, Dhamija, N., Gupta, U., Dhall, M. (2019). Lifestyle Trends and Obesity among College Going Girls of Delhi. *Health*. Volume 11, Issue 2, pp 201-210.
- Mangla, A.G., Dhamija, N., Gupta, U., Dhall, M. 2019. Familial background as a hidden cause for obesity among college going girls. *Journal of Biomedical Science and Engineering*, 7, pp 1-13.
- Mishra, J., Kaur, L., Yadav, S., Puri, M., Sachdeva, M.P., & Saraswathy, K.N. (2019). MTHFR gene specific and global methylation patterns in normal pregnancy: A pilot study (India). *Meta Gene*, 19, pp 203-206.
- Mishra, J., Talwar, S., Kaur, L., Chandiok, K., Yadav, S., Puri, M., & Saraswathy, K.N. (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.
- Newmei, M.K., Ningombam, S.S., Mondal, P.R., & Saraswathy, K.N. (2018). Trajectory of female reproductive life of Liangmai population of Manipur, India. *Voice of Intellectual Man-An International Journal*, 8(1), pp 115-120.
- Nilupher, Gupta, U., Kshetrimayum Surmala Devi, Dhall, M., Tyagi, R., Kapoor, S. The FTO Gene rs9939609 Polymorphism and its Association with BAI as Well as Other Adiposity Markers. *Archives of Epidemiology*.
- Rao, Aditi Singh, Puri, M., Talwar, S., Mishra, J., Bhattacharjee, J., Saraswathy, K.N. (2018) Biochemical and genetic profile of women with early and late onset severe preeclampsia: A prospective observational study. *Biomedicine* 21; 3; pp 488-544
- Rawat, S., Rajkumari, S., Joshi, P.C., Khan, M.A. and Saraswathy, K.N. (2019). Who dies and Who Survives? Investigating the difference between suicide decedents and suicide attempters. *Egyptian Journal of Forensic Science*.
- Rawat, S., Joshi, P.C., Khan, M.A. and Saraswathy, K.N. (2018). Trends and Determinants of Suicide in Warangal District, Telangana, India: Six years Retrospective Study based on Secondary Data. *Egyptian Journal of Forensic Sciences* 8: 8.
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- Saini, S., Walia G.K., Sachdeva, M.P., Gupta. V. (2018). Genetics of obesity and its measures in Indian population. *Journal of Genetics (Springer Nature)*.

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Saraswathy, K.N., Kaur, L., Talwar, S., Mishra, J., Huidrom, S., Sachdeva, M.P., Puri, M. (2018) Methylenetetrahydrofolatereductase gene-specific methylation and recurrent miscarriages: A Case- Control Study from North India. *J Hum Reprod Sci*

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Sharma, S., Yadav, S., Chandio, K., Sharma, R.S., Mishra, V., & Saraswathy, K.N. (2019) Protein signatures linking history of miscarriages and metabolic syndrome: a proteomic study among North Indian women. *Peer*, 7, e6321.

Shumayla, Dhall, M., Nilupher and Kapoor, S. (2018) An Investigation of ACE and TCF7L2 Genes in relation with menstrual characteristics among Muslim Women: A population Study. *International Journal of Research & Analytical Reviews*. Vol. 5: Issue 4, 574-591.

Thakur, M.K., Devi, N.K., & Saraswathy, K.N. (2018) Gut Microbiota and Human Health with special reference to Vitamin Synthesis. *Voice of Intellectual Man-An International Journal*, 8(1), pp 101-114.

Thakur, M.K., Joshi, S., Yadav, S., Devi, N.K., & Saraswathy, K.N. (2018). Vitamin B12 Deficiency among a Mendelian Population of North India. *Applied Biological Research*, 20(2), pp 184-192.

Wahengbam, A.K.G.S., Kumari, K., Singh, R.K., Rao, V.R., Saraswathy, K.N., Dharajiya, K., ... & Murry, B. (2019) An Uncommon Variant Hemoglobin: Hb Ty Gard Detected from Gujarat, India. *Indian Journal of Hematology and Blood Transfusion*, pp 1-2.

Yadav, S., Mishra, J., Murry, B., & Saraswathy, K.N. (2018) A Study on Reproductive Trajectories of Bhil Women of Rajasthan, India. *Voice of Intellectual Man-An International Journal*, 8(2), pp141-150.

Yadav, S., Kumari, M., Naorem Kiranmala Devi, Saraswathy, K.N. (2018) Micronutrient deficiency and burden of anemia a population based study from Haryana, India. *National Journal of Laboratory Medicine*.

Zhimo, Avitoli, G. (2018) Customary Laws, Patriarchy and Gender Relations in Contemporary Sumi Naga Society. In M.C. Behera (ed) *Revisiting Tribal Studies: Glimpse after hundred years*.

### **MOOC modules**

Zhimo, Avitoli G. (2018) *Visual Anthropology*. MOOC module, SWAYAM (NRC, MHRD). <https://archive.swayam.gov.in/courses/5298-anthropology>

Zhimo, Avitoli G. (2018) *Theories of Globalization*. MOOC module, SWAYAM (NRC, MHRD). <https://archive.swayam.gov.in/courses/5298-anthropology>

### **Research Projects**

**ICSSR**, Determinant of Suicidal behavior, A study from Telangana state, India, 1/06/2018 - 31/12/2018, Dr. K.N. Saraswathy, Rs. 8 lakhs

**DU-DST**: Psychosocial and biological determinants of cardiovascular disease: A study among Bhils and Meenas of Rajasthan, 2014-2018, Dr. K.N. Saraswathy, Rs. 2 crores.

**ICMR**, Anthropological Study of High Risk Community Lohanas of Gujarat for Beta Thalassemia: Genetic Heterogeneity and Origin of 619bp deletion Mutation, 2014-2018/2019 extension, Dr. Benrithung Murry, Rs. 33 lakhs

**Wellcome Trust-DBT**: Longitudinal Assessment of metabolomic changes during pregnancy on fetal growth, 2017-2022, Dr. Vipin Gupta, Rs. 3.81 crores

**SERB-DST**: Genome-wide investigation of body fat distribution among the women population of Andhra Pradesh, 2015-2018, Dr. Vipin Gupta, Rs. 23 lakhs

### **Seminars organized:2**

National Seminar on “Globalization of Indian Tribes: Past, Present, and Future Dynamics”, 26<sup>th</sup> October 2018.

#### Speakers

Prof. Papa A. Rao, (Tirupathi University) Tribal Situation in India: An overview; Prof. Falguni Chakrabarty, (Vidya Sagar University), Sacred Grove and the intra-ethnic unity among the Santhals; Dr. J.S. Sehrawat, (Panjab University), Tribal Art of tattooing as a tool of identification in cultural and forensic anthropology.

National Seminar on “Health Policy Research: Current scenario”. 15th March, 2019. Chief Guest: Dr. S.C. Rao, Senior Adviser, Department of Biotechnology, Ministry of Science and Technology and Guest of Honour: Prof. M.S. Bhatia, Department of Psychiatry, University College of Medical Sciences

#### Speakers:

Prof. Avanish Kumar, MDI, Policy responses to social and spatial exclusion.

Dr. Gautam Kumar Singh, (Medical Officer, NCTD) Reproductive maternal Neonatal Child & Adolescent Health (RMNCH+A) program

Prof. P.C. Joshi, (Head, Department of Anthropology, DU) National health policies and indigenous medical systems.

Dr. Rabi Bhushan, (IHFV), Challenges in primary health care

Prof. R.K. Chadda, (Head, Department of Psychiatry, AIIMS) Mental health: concepts and challenges.

Dr. Rajmohan Panda, PHFI, Evidence based policy: A case for the Indian health sector

Dr. Sunita Reddy, Associate Professor, JNU, *Paradigm shift in health care policies: A case of medical tourism*

Prof. Subir Kumar Maulik, AIIMS, *Integration of traditional medicines with conventional medicines: need of the hour in India*

### **Special Lectures organized: 5**

Isabelle Lange, London School of Hygiene and Tropical Medicine, Using layered ethnographic methods in clinical settings: the precarity of health workers in private maternal facilities in Rajasthan, 15<sup>th</sup> November 2018

Dr. Alison Louise Kahn, Director, ODFI& Research and Tutorial Fellow, Stanford Overseas Learning Program, Oxford, Ethnographic Filmmaking in Anthropology, 18<sup>th</sup> January 2019

Prof. V.K. Srivastava, Director, Anthropological Survey of India, Ethnography Method, 22<sup>nd</sup> February 2019

Dr. Lalit Kumar, Former Adviser, Planning Commission, Application of Anthropological Knowledge in Studies of Tribal Welfare, Communal Harmony, Civil Society and Sanitation & Hygiene, 12<sup>th</sup> April 2019

Dr. Kumkum Srivastava, Associate Professor (Ex.) of History, Janki Devi College, University of Delhi, Researching the 'OTHER': Experiences from the Field, 26<sup>th</sup> April 2019

### **Conferences organized**

"Virtual Conference on DISPLACEMENT", 20th April 2018, Organized by Society for Cultural Anthropology, USA. Department of Anthropology hosted the Local Delhi node. Funding agency: Wenner-Gren Foundation.

### **Training/ Refresher course**

Research Methodology Course on "Participatory Digital Methodologies and Ethnographic Filmmaking", 14-24 January 2019, Funded by ICSSR Course Directors: Prof. P.C. Joshi and Dr. Avitoli G. Zhimo.

### **Workshop organized**

International Workshop on '*Building Intercultural Competency: Perspectives from India and Italy*' was organized by the Department of Anthropology, University of Delhi in collaboration with University of Bologna (Italy), Indian Anthropological Association and Utkal University on 20<sup>th</sup> September, 2018 at International guest House, University of Delhi.

#### **Speakers**

Prof. Vincenzo Matera, Dipartimento di beniculturali, Universit  di Bologna

Prof. Stefano Caldirola, Asian History, University of Bergamo

Prof. S.M. Patnaik, Vice Chancellor, Utkal University.

### **Seminars/Conference Presentations (National /International)**

Dhall, Meenal, Invited lecture on "*Bio-genetic markers and Quality of life: An Ethnic Insight*", 106<sup>th</sup> Indian Science Congress 2019, 3<sup>rd</sup> – 7<sup>th</sup> Jan 2019, Lovely Professional University, Jalandhar, Punjab.

Gupta, Vipin, "*Landscape of Life-course Epidemiology in India*", INCAA, Pune, February 2019.

Gupta, Vipin, "*Gestational Route to Healthy Birth*" (poster), Wellcome Trust/DBT India Alliance Annual Meeting 2018, New Delhi.

Kshatriya, Gautam K., Invited Lecture, "*Under nutrition and Gender disparities: A study among the Indian tribes*", International Seminar on Understanding Tribes in Neo-Liberal Era, PG Department of Anthropology, Utkal University, March 9-10, 2019.

Saraswathy, K.N., Invited Lecture, "*Relevance of Anthropology in Health through Epigenetics*", 106<sup>th</sup> Indian Science Congress, section: Anthropological and Behavioral Science, 3<sup>rd</sup> – 7<sup>th</sup> Jan 2019

Singh, M. Kennedy presented a paper on "Yoga: As a Profession" on the occasion of International Yoga Day, 21st June 2018 in Department of Anthropology, University of Delhi, Delhi.

Zhimo Avitoli G., "*Indo-Pacific Beads of the Kachin of Myanmar and the Nagas of North East India: Significance and Mystery*", International Conference on *Northeast India and Southeast Asia: Exploring Continuities*, B.R.Ambedkar University, Delhi, 25-26 October 2018.

Zhimo, Avitoli G., "*We were the Others: Visuality in Colonial Writings*", International Conference on *Materiality and Visuality in North east India*, 28<sup>th</sup> February 2019 to 1<sup>st</sup> March, 2019 at Centre for North East studies and Policy Research, Jamia Milia Islamia.

Zhimo, Avitoli G., “*Traditional Healing Practices among the Zeme: Reflections on challenges from the field*”, workshop on *Traditional knowledge system and Indigenous Healing Practice in North East India*, IGNCA, 17 October 2018.

### **Students under Exchange Programme**

#### **Inbound students**

Maximilian Apel, from Freie Universität Berlin, Germany, January to May 2018, Guide: Dr. Avitoli G. Zhimo

Whitney Russell, University of California, San Diego, USA, January to October 2018, Fulbright-Nehru Research Scholar, Guide: Dr. Avitoli G. Zhimo

Laura Murray, University of New York, USA, October 2018 to October 2019, Guide: Dr. Avitoli G. Zhimo

Nina Baum, Freie Universität Berlin, Germany, January to May 2019, Guide: Dr. Avitoli G. Zhimo

#### **Extension and Outreach activities**

Dr. Avitoli G. Zhimo addressed north-east students of Miranda House on the topic: Representations of northeastern tribes in colonial photography and writings. 21st February 2019. The event was organized by North-east society in collaboration with IBSD Miranda House-Centre for North East studies, University of Delhi.

Dr. Avitoli G. Zhimo was invited by Amity Institute of Anthropology (AIA) as guest speaker on 'World Anthropology Day', 21st February 2019. She interacted with undergraduate and graduate students on the topic Digital and Visual Ethnography citing cases from personal encounters and everyday life and connecting them with theories in anthropology.

Dr. Avitoli G. Zhimo was invited as Resource Person to deliver a lecture on ‘Visual and Virtual Ethnography’ at the Ethnography Workshop for Research Scholars, organized by Ambedkar University Delhi from 11th–22nd March 2019 with the support of Anthropological Survey of India, Kolkata.

Dr. Avitoli G. Zhimo was invited as a panelist for panel discussion on ‘Status of Women in North East Society’ by Jesus and Mary College, University of Delhi on 12th March 2019.

Dr. Avitoli G. Zhimo was invited to deliver special lecture on ‘Gender and Customary Law’ for the course on “Gendered World: Memory and Politics in Northeast India” for MA Gender Studies Students at Ambedkar University, Delhi on 14th March 2019.

Dr. Chakraverti Mahajan delivered lecture titled “Fieldwork and Research Methodology in Folklore Studies” to the participants of the Short-term certificate course in Folklore and Intangible Cultural Heritage conducted by the Indira Gandhi National Centre for the Arts (IGNCA), New Delhi on February 2, 2019.

Dr. Chakraverti Mahajan delivered lecture titled “Preparing for Fieldwork in Folklore Studies” to the participants of the Short-term certificate course in Folklore and Intangible Cultural Heritage conducted by the Indira Gandhi National Centre for the Arts (IGNCA), New Delhi on February 3, 2019.

Dr. Kennedy M. Singh delivered a lecture in the ICSSR project workshop on Traditional healing Practices in North East on 18th January 2019, organized by Centre of Social Medicine and Community Health, School of Social Sciences, Jawaharlal Nehru University, Delhi

Dr. Kennedy M. Singh attended consultation meeting for the Tribal Human Development Report on Monday, 18th February 2019 at India International Centre Annexed, Committee Room 1, organized by the Institute for Human Development, Delhi.

Dr. Meenal Dhall was invited for the Jharkhand NCD Program Dissemination Workshop on 25th Feb 2019, Delhi organized by Project HOPE with support from Boston Scientific and in collaboration with Vikas Bharti Camp; Jharkhand Rural Health Mission Society (JRHMS).

Dr. Meenal Dhall attended SCOPE School Cape Town, 28 November 2018.

Prof. P. C. Joshi delivered University Extension Lecture at J.N. Medical College, Aligarh Muslim University, Aligarh on September 1, 2018.

Prof. P. C. Joshi delivered Guest Lecture at the IbnSina Academy of Medieval Medicine and Science, Aligarh, September 1, 2018.

Prof. P. C. Joshi was invited to deliver 1<sup>st</sup> Prof. S.R.K. Chopra memorial lecture at Department of Anthropology, Panjab University, Chandigarh. 28<sup>th</sup> February, 2019.

Prof. P. C. Joshi delivered a lecture on Ethnography in the Anthropological Survey of India funded Workshop on Research Methodology at the School of Liberal Studies, Ambedkar University, New Delhi on 11<sup>th</sup> March, 2019.

Prof. P. C. Joshi delivered a lecture on Field Research in the ICSSR funded Research Methodology Workshop in the Department of Anthropology. Mahatma Gandhi International Hindi University, Wardha 14<sup>th</sup> March, 2019.

Dr. Vipin Gupta, attended EMBO Laboratory Leadership Course organized by *Wellcome Trust UK / DBT India Alliance*, March 2019.

#### **Number of M.Phil. Ph.D. awarded**

Ph.D. : 20

M.Phil. : 17

**Faculty strength: 18**

#### **Other Significant Information**

Prof. PC Joshi delivered Third Prof. S. C. Dube memorial lecture at Dr. Hari Singh Gaur University, Sagar, M.P., July 15, 2018.

Prof. PC Joshi delivered 1<sup>st</sup> Prof. S.R.K. Chopra memorial lecture at Department of Anthropology, Panjab University, Chandigarh, February 28, 2019.

Prof. P. C. Joshi was invited to chair Prof. Iravati Karve Memorial Oration at INCAA Anthropological Congress at Savitribai Phule Pune University, Pune. 23<sup>rd</sup> February, 2019.

Dr. K.N. Saraswathy, Dr. Benrithung Murry, Dr. R.P. Mitra, Dr. Chakraverti Mahajan took B.Sc. Part III students and M.Sc. Part II students to Udaipur district, Rajasthan for conducting Anthropological Fieldwork in the month of March 2019.

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### **BOTANY**

#### **Major Activities and Achievement**

The Department of Botany is engaged in teaching and cutting-edge research in diverse areas of plant biology and interdisciplinary fields. Genetic diversity, population structure and sex identification in various plant species employing molecular markers have been done. Bioassay guided isolation, characterization and elicitation of bioactive molecules in plant tissues have been accomplished. Fabrication of silver nanoparticles using herbal extracts and their bioefficacy studies against human cancer cell lines and

mosquito vectors causing malaria, filarial and dengue was performed. Proteomics and biochemical studies on *Dioscorea alata* tubers provided information about different dioscorin isoforms, including some novel forms. Nitrosylation studies in *Brassica juncea* confirmed S-nitrosylation of Myrosinases. Presence of cyclotides that possess unique mass range and showed antimalarial activity was revealed in *Viola canescens*. Evolutionary history of several miRNA genes and OVATE FAMILY PROTEINS was traced across plants. Several transcriptomics and transgenic-based studies were conducted in various plants, insects and pathogens.

### Honours/Distinctions

Prof. Veena Agrawal was conferred "Honorary Professor" by Samarkand State University, Uzbekistan in 2018 in recognition of her distinguished academic services.

Prof. P.L. Uniyal was elected as a fellow of Indian Fern Society, India

Prof. Renu Deswal was appointed as Executive Committee Member, *Seabuckthorn* Association of India.

### Publications

Agnihotri, P.A., Jha Maity, P., Dwivedi, K.K., Bhat, V. (2018). Isolation of Nucellin gene promoter from *Hordeum vulgare* and its characterization in *A. thaliana*. *The International Journal of Plant Reproductive Biology*, 10(2), 151-156.

Anand, G., Kapoor, R. (2018). Population structure and virulence analysis of *Alternaria carthami* isolates of India using ISSR and SSR markers. *World Journal of Microbiology and Biotechnology*, 34(9), 140.

Anand, S., Lal, M., Das, S. (2018). Identification of pre-meiotic and post-meiotic stages of pollen, standardization and validation of a modified method for RNA isolation from anther, pistil and developing seed of *Brassica rapa*. *International Journal of Plant Reproductive Biology*, 10(2), 178-183.

Bahuguna, Y.M., Govindaparyari, H., Suman, S., Uniyal, P.L. (2018). Bryophyte diversity, utility and prospects. pp128-179. In: *Plant Diversity in India* (Eds A.K. Bhatnagar and R. Kapoor). New Delhi, I K International Publishing House Pvt Ltd.

Bhandari, P.K., Thakur, J., Sharma, S., Uniyal, P.L. (2018). Orchid Diversity in Basukedar region (Rudraprayag) District of Uttarakhand. *Journal of Orchid Society of India*, 32,73-80.

Bhatla, S.C., Lal, M.A. (2018). *Plant Physiology, Development and Metabolism*. Singapore: Springer Nature Singapore Pvt. Ltd.

Bhatia, M., Kumar, B., Uniyal, P.L. (2018). *In vitro* spore germination, gametophyte ontogeny and sporophyte regeneration in *Platyserium bifurcatum* (Cav.) C. Chr. *Indian Fern Journal*, 35, 54-66.

Bidalia, A., Okram, Z., Hanief, M., Rao, K.S. (2018). Assessment of tolerances in *Mitragyna parvifolia* (Roxb.) Korth. and *Syzygium cumini* Keels. seedlings to waterlogging. *Photosynthetica*, 56(2),707-717.

Chaudhary, E., Tiwari, P., Uniyal, P.L. (2018). Morphology and pollen chemistry of several bee forage taxa of family Rosaceae from Garhwal Himalaya, Uttarakhand, India. *Journal of Apiculture Science*, 62 (2).

Chaudhary, E., Tiwari, P., Uniyal, P.L. (2018). Macro and essential trace elements in *Apis cerana-indica* honey from Garhwal Himalaya, India. *International Journal of Plant and Environment*, 4 (1), 49-54

Dangwal, M., Das, S. (2018) Identification and analysis of OVATE family members from genome of the early land plants provide insights into evolutionary history of OFP family and function. *Journal of Molecular Evolution*, 86(8), 511-530

Dhyani, S., Maikhuri, R.K., Rao, K.S. (2018). Canopy Gap phase regeneration: A study in moist temperate forests of Central Himalayas, India. *Sustainable Forestry*, 1(4), 1-16.

- Dinakaran, J., Chandra, A., Chamoli, K.P., Deka, J., Rao, K.S. (2018). Soil organic carbon stabilization changes with an altitude gradient of land cover types in central Himalaya, India. *CATENA*, 170, 374-385.
- Evelin, H., Thokchom, S.D., Gupta, S., Kapoor, R. (2019). Mitigation of salinity stress in plants by arbuscular mycorrhizal symbiosis: current understanding and new challenges. *Frontiers in Plant Science (Plant abiotic stress)*.
- Goel, M., Laatsch, H., Uniyal, P.L. (2019). Characterization of phenolic compounds from *Parmelia reticulata* Tayl. *National Academy Science Letter.*,
- Pandit, S., Dalal, V., Mishra, G. (2018). Identification of novel phosphatidic acid binding domain on sphingosine kinase 1 of *Arabidopsis thaliana*. *Plant Physiology and Biochemistry*, 128,178-184.
- Ismail, Z., Khuroo, A.A., Bhat, M.Y., Rasheed, S., Uniyal, P.L. (2018). *Lunularia cruciata* (L.) Dumort. ex Lindb.: a new plant record for the bryoflora of Kashmir Himalaya, India. *Evansia*, 35(3), 100-105.
- Jain, P., Bhatla, S.C. (2018). Tyrosine nitration of cytosolic peroxidase is probably triggered as a long distance signaling response in sunflower seedling cotyledons subjected to salt stress. *PLOS One*, 13(5), e0197132.
- Joshi, G., Chauhan, C., Das, S. (2018). Microsynteny analysis to understand evolution and impact of polyploidization on MIR319 family within Brassicaceae. *Development, Genes and Evolution*, 228(6), 227-242.
- Kasana, S., Dwevedi, M.D., Uniyal, P.L. (2018). Taxonomic status of *Saussurea costus* (Falc.) Lipsch. (Asteraceae: Cardueae); a critically endangered species from Himalaya, India. *Pleione*, 12(1), 81-84.
- 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). Phytohormones regulating the Master Regulators of CBF Dependent Cold Stress Signaling Pathway. In: (Eds. Vijay Rani Rajpal, Deepmala Sehgal, Avinash Kumar, S.N. Raina) *Genetic Enhancement of Crops for Tolerance to Abiotic Stress: Mechanisms and Approaches*, Vol. I, pp. 249-264.
- 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.
- Kaur, I., Uniyal, P.L. (2019). *Textbook of Gymnosperms*. New Delhi, Daya Publishing House. pp 165
- Keisham, M., Jain, P., Singh, N., von Toerne, C., Bhatla, S.C., Lindermayr, C. (2019). Deciphering the nitric oxide, cyanide and iron-mediated actions of sodium nitroprusside in cotyledons of salt stressed sunflower seedlings. *Nitric Oxide*, 88,10-26.
- Keisham, M., Mukherjee, S., Bhatla, S.C. (2018). Mechanisms of sodium transport in plants- progresses and challenges. *International Journal of Molecular Sciences*, 19(3), 647.
- Kumar, D., Kumar, G., Agrawal, V. (2018). Green synthesis of silver nanoparticles using *Holarrhena antidysenterica* (L.) Wall. bark extract and their larvicidal activity against dengue and filariasis vectors. *Parasitology Research*, 117(2), 377-389.
- Kumar, D., Kumar, G., Das, R., Agrawal, V. (2018). Strong larvicidal potential of silver nanoparticles (AgNPs) synthesized using *Holarrhena antidysenterica* (L.) Wall. bark extract against malarial vector, *Anopheles stephensi* Liston. *Process Safety and Environmental Protection*, 116, 137-148.
- Kumar, D., Kumar, G., Das, R., Kumar, R., Agrawal, V. (2018). *In vitro* elicitation, isolation, and characterization of conessine biomolecule from *Holarrhena antidysenterica* (L.) Wall. callus and its larvicidal



activity against malaria vector, *Anopheles stephensi* Liston. *Environmental Science and Pollution Research*, 25(7), 6783-6796.

Kumar, J., Agrawal, V. (2019). Assessment of genetic diversity, population structure and sex identification in dioecious crop, *Trichosanthes dioica* employing ISSR, SCoT and SRAP markers. *Heliyon*, 5(3), e01346.

Kumar, J., Heikrujam, M., Sharma, K., Agrawal, V. (2019). SRAP and SSR marker-assisted genetic diversity, population structure analysis and sex identification in Jojoba (*Simmondsia chinensis*). *Industrial Crops and Products*, 133, 118-132.

Mamgain, A., Uniyal, P.L. 2018. Species Distribution Modelling of *Rhododendron arboreum* Sm. – A Keystone Species, in India and Adjoining Region. *International Journal of Ecology and Environmental Sciences*, 44 (3), 261-286.

Mathur, P., Singh, V.P., Kapoor, R. (2018). Interactive effects of CO<sub>2</sub> concentrations and *Alternaria brassicae* (Berk.) Sacc. infection on defense signalling in *Brassica juncea* (L.) Czern. & Coss. *European Journal of Plant Pathology*, 151, 413–425.

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.

Nanda, R., Agrawal, V. (2018). Piriformospora indica, an excellent system for heavy metal sequestration and amelioration of oxidative stress and DNA damage in *Cassia angustifolia* Vahl under copper stress. *Ecotoxicology and Environmental Safety*, 156, 409-419.

Nindawat, S., Agrawal, V. (2019). Fabrication of silver nanoparticles using *Arnebia hispidissima* (Lehm.) A. DC. root extract and unravelling their potential biomedical applications. *Artificial cells, Nanomedicine, and Biotechnology*, 47(1), 166-180.

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Rustagi, A., Shekhar, S., Kumar, D., Lawrence, K., Bhat, V., Bhalla Sarin, N. (2019). High speed regeneration via somatic embryogenesis in elite Indian banana cv. Somrani monthan (ABB). *Vegetos*. (doi.org/10.1007/s42535-019-00005-8).

Sharma, B., Deswal, R. (2019). Ecophysiological analysis of stress tolerant Himalayan shrub *Hippophaerhamnoides* shows multifactorial acclimation strategies induced by diverse environmental conditions. *Physiologia Plantarum*, <https://doi.org/10.1111/ppl.12942>

Sharma, B., Gupta, R., Sahoo, D., Deswal, R. (2019). Purification of dual-functioning chitinases with hydrolytic and antifreeze activities from *Hippophae rhamnoides* seedlings. *Journal of Proteins and Proteomics*, 1-13.

Sharma, B., Sahoo, D., Deswal, R. (2018). Single-step purification and characterization of antifreeze proteins from leaf and berry of a freeze tolerant shrub *Seabuckthorn* (*Hippophaerhamnoides*). *Journal of Separation Science*, 41 (20), 3938-3945.

Sharma, E., Tayal, P., Anand, G., Mathur, P., Kapoor, R. (2018). Functional analysis of Diacylglycerol O-acyl transferase 2 gene to decipher its role in virulence of *Botrytis cinerea*. *Current Genetics*, 64(2), 443-457.

Sharma, B., Deswal, R. (2018). Single pot synthesised nanoparticles using *Hippophae rhamnoides* leaf and berry extract showed shape dependent differential nonbiotechnological application. *Artificial Cell, Nanomedicine, and Biotechnology*. 46,1-11.

Sharma, P., Sanavar, Govindaparyi, H., Kumari, P., Uniyal, P.L. (2018). Diversity and Developmental Biology of Gymnosperms pp 280-318. In *Plant Diversity in India* (Eds A. K. Bhatnagar and R. Kapoor). New Delhi, I K International Publishing House Pvt Ltd. ISBN978-93-85909-69-6.

Sharma, U., Agrawal, V. (2018). In vitro shoot regeneration and enhanced synthesis of plumbagin in root callus of *Plumbago zeylanica* L.—an important medicinal herb. *In Vitro Cellular & Developmental Biology-Plant*, 54(4), 423-435.

Sherawat A., Sougrakpam Y., Deswal, R. (2018). 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.

Singh, N., Bhatla, S.C. (2018). Nitric oxide regulates lateral root formation through modulation of ACC oxidase activity in sunflower seedlings under salt stress. *Plant Signaling and Behavior*, doi.org/10.1080/15592324.2018.1473683.

Singh, N., Bhatla, S.C. (2019). Hemoglobin as a probe for estimation of nitric oxide emission from plant tissues. *Plant Methods*, 15:39. 1-8.

Singh, N., Kapoor, R. (2018). Quick and accurate detection of *Fusarium oxysporum* f. sp. *carthami* in host tissue and soil using conventional and real-time PCR assay *World Journal of Microbiology and Biotechnology*, doi.org/10.1007/s11274-018-2556-y

Singh, N., Bhatla, S.C., Demidchik, V. (2019). Plants and human beings engage similar molecular crosstalk with nitric oxide under stress conditions. *Functional Plant Biology*, doi.org/10.1071/FP1908.

Singh, S., Das, S. Geeta, R. (2018). A segmental duplication in the common ancestor of Brassicaceae is responsible for the origin of the paralogs KCS6-KCS5, which are not shared with other angiosperms. *Molecular Phylogenetics and Evolution*, 126, 331-345

Singh, A., Uniyal, P.L. (2018). Study on the Accumulation of Heavy Metals in Some Epiphytic Mosses of Nainital City, Uttarakhand, India. *Cryptogam Biodiversity and Assessment*, 3 (1), 1-6..

Singh, A., Sharma, B., Deswal, R. (2018). Green silver nanoparticles from novel Brassicaceae cultivars with enhanced antimicrobial potential than earlier reported Brassicaceae members. *Journal of Trace Elements in Medicine and Biology*, 4, 1-11.

Sougrakpam Y., Babuta P., Deswal, R. (2018). Current Scenario of NO (S-Nitrosylation) Signaling in Cold Stress. (Eds. Akula Ramakrishna, Sarvajeet Singh Gill) Taylor & Francis Group In: *Metabolic Adaptations in Plants during Abiotic Stress*, pp. 351-360.

Sourabh, P., Thakur, J., Priti, Sharma, P., Uniyal, P.L. Pandey, A.K. (2018). Habitat Distribution Modelling for Reintroduction of Endangered Medicinal Plants *Ephedra gerardiana*, *Lilium polyphyllum*, *Crepidium acuminatum*, *Pittosporum eriocarpum* and *Skimmia anquetilia* in India. *International Journal of Ecology and Environmental Sciences*, 44 (2), 207-216, 2018.

Srivastava, R., Uniyal, P.L. (2018). Influence of antheridiogen on the gametophyte development in *Onychium contiguum* (Wall.) Hope. In *Pteridology Today: Challenges and Opportunities* (Ed S.C. Verma, S.P. Khullar, A. Benniamin, P. Lakshminarasimhan and P. Singh). Kolkata, Botanical Survey of India.

Thakur, J., Dwivedi, M.D., Uniyal, P.L. (2018). Ultrastructural studies and molecular characterization of root-associated fungi of *Crepidium acuminatum* (D Don) Szlach. : a threatened and medicinally important taxon. *Journal of Genetics*, https://doi.org/10.1007/s12041-018-1007-8.

Tyagi, S., Majumdar, P. A., Mayee, P., Shivaraj, S.M., Anand, S., Singh, A., Madhurantakam, C., Sharma, P., Das, S., Kumar, A., Singh, A. (2018). Natural structural variants of Brassica FT depict differential interaction with Arabidopsis FD and influence multiple agronomic traits in rapeseed mustard. *Plant Science*, 277, 251–266.

## Journals/Periodicals

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 faculty serving as editors / members of editorial board**

Editor/Associate Editor – Two teachers in three journals

Member of Editorial Board – one teacher in four journals

### **Research Projects**

DST: Indo-Belarus joint project “ROS/RNS-induced K<sup>+</sup> loss as a key determinant of sunflower plant injury and survival under abiotic stress”, 2017-2019, Rs.29,96,000.

UGC: Joint UCG-ISF project titled “Calcium and auxin signaling during adventitious root development and analysis of possible nitric oxide crosstalk;2017-2020, Rs. 95,17,728.

SERB: “Bio-assay guided Isolation, Identification and Elicitation of Anticancerous bioactive compounds from *Nardostachys jatamansi*, *Psoralea corylifolia* and *Plumbago zeylenica*”; 2017-2020, Rs. 33,18,480.00.

DBT-IBSD: 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; 2017-2019, Rs. 5000000.

SERB-EMR: Diversity and performance of key forest tree species and bryophytes in gap and non-gap areas along an altitudinal gradient in Uttarakhand, 2018-2021, Rs. 4100000.

DBT: 2017-2020, Identification of trans-factors interacting partners of promoters of a miRNA-transcription factor module from *Brassica juncea*, ; 2017-2020, Rs.5481300.

DST SERB: 2019-2022, Phosphatidic acid-protein interactions: molecular mechanism and role during abiotic stress in Arabidopsis;,,2019-2022, Rs. 4667000.

DST SERB: 2017-2020, *At* NDL Proteins: Molecular Mechanism of Action in Regulation of Plant Growth and Development; 2017-2020, Rs. 4089000.

DBT: 2018-2021, Root Development related Signaling Networks: Role of At N-myc Downregulated Like Proteins and Interacting Partners; 2018-2021, Rs. 4987000.

### **Seminars/Conference Presentations**

Agarwal, A.,

Co-presented paper on *Genetically Engineered Indica Rice for Drought and Salinity Tolerance and Weed Management* in 4th World Congress on New Technologies (NewTech'18) Madrid, Spain – August 19 – 21, 2018.

Delivered keynote lecture on *Micropropagation of herbal plant taxa and their role in biomedical applications* and chaired the Technical Session *Best practices in micropropagation of herbaceous plants* in 40<sup>th</sup> Meeting of Plant Tissue Culture Association-India & International Conference on Trends in Plant Sciences and Agrobiotechnology, held at IIT, Gauhati, February 14-16, 2019.

Delivered invited lecture on *Genetically Modified Plants and Environment Safety* in workshop of Ministry of HRD, Govt. of India at Ramjas College, Delhi University, February 13-14, 2019.

Chaired technical session during national conference on Chemistry for human Health and Environment, organized at Delhi University, 15-16, Dec. 2018.

Invited lecture on *Innovations in Medicinal Plant Research for Human Welfare (Medicinal Plant Biotechnology)* at Miranda House on 29.10.2018.

Invited talks on *Paradigms In Medicinal Plant Biotechnology: Resource Management of Elite Germplasm* at CPDHE, University of Delhi, 26<sup>th</sup> July 2018.

Invited lecture on *Isolation And Elicitation of Some Therapeutic Biomolecules from plants* at CPDHE, University of Delhi, 26<sup>th</sup> July 2018.

Chaired technical Sessions during an international Conference on Integrative Chemistry, Biology & Translational medicine organized by University of Loyola, Chicago, and Hansraj College, Univ. of Delhi, February 25-26<sup>th</sup>, 2019.

Babuta P. and Deswal R. Presented poster on *Purification of S-nitrosoglutathionereductase (GSNOR) from Brassica juncea: its in silico and biotechnological analysis* at National Symposium on Current trends and future prospecter in plant science research at Centre of Advance Study, Department of Botany, Institute of Science, Banaras Hindu University India, 1st – 3rd February, 2019.

Das, S., Presented paper on *Polyploidy, genome evolution and functional diversification: insights from comparative analysis of regulatory elements* at International Conference on Trends In Plant Sciences And Agrobiotechnology 2019 and 40th Meeting of Plant Tissue Culture Association of India; IIT-Guwahati, February 14-16, 2019

Deswal, R.

Invited lecture on *Under representation of woman in Science in India. in Emergence of Feminism in 21st century India: Group Activism to hash tag* at JNU Convention Centre, JNU, New Delhi, 24th November, 2018.

Invited lecture on *Small Steps towards green development of nation through research in plant sciences* in Faculty Development Program on Sustainable and Green development, Atma Ram Santan Dharma College (ARSD), University of Delhi, 22nd Oct, 2018.

Invited presentation on *Dioscorea – An Alternative Crop to Cater the World Food Crisis Scenario* at International Conference on Biotechnological Innovations in Food and Health Care (Bifhc 2019) at BITS PILANI Dubai Campus, 27 - 28 January, 2019.

Co-Chaired the Technical Session of 2nd National Conference of Seabuckthorn Association of India on “Seabuckthorn-Technologies for Cultivation Environmental Conservation Nutrition Security and Health Protection” organized by Seabuckthorn Association of India on 23-25 October 2018 at Hotel Peterhoff, Shimla.

Dhyani and Uniyal P L. Invited lecture on *Biosystematics of Bryophytes – Recent Development* in National seminar on Plant Sciences: Current Challenges and Perspectives at Calicut University, Calicut, 28 Feb to 2 March 2019.

Kapoor, R.

Presentation on *Arbuscular mycorrhiza in improving the productivity of terpenoids in medicinal plant* in National Seminar on Biotechnology research in India: Current status and future prospects, at Department of Biotechnology, School of Chemical & Life Sciences, Hamdard University 26th and 27th March 2019.

Presentation on *Arbuscular Mycorrhiza in Sustainable Agriculture* in National Conference on Plant and Microbial Research: Present Scenario, at Department of Botany, Punjabi University, Patiala, February 18-19, 2019.

eSymposium on *Avenues in Plant Sciences: A Hope for Sustainable Future*, at Deshbhandu College, University of Delhi, 8th March, 2019.

Presentation on *Identification of Novel Determinants Contributing to pathogenicity of Botrytis cinerea* in International Symposium on Fungal Biology: Advances, Applications and Conservation & 4th Annual

Meeting of Mycological Society of India, by National Fungal Culture Collection of India (NFCCI) and MAC's Agharkar Research Institute, Pune, November 19-12, 2018.

Mishra, G.

Presentation on *Sustainable production of omega-3 polyunsaturated fatty acids from microalgae* in Symposium on Avenues in Plant Sciences: A Hope for Sustainable Future by Deshbandhu College, University of Delhi, 8th March 2019.

Presentation on Microalgal feed towards enhancement of omega-3 polyunsaturated fatty acids." at Hands on training programme on recent advances in fish nutrition. Department of Zoology, University of Delhi, 15th March 2019.

Presentation on *Phosphatidic acid: key mediator during abiotic stress in plants* at DAE-BRNS life science symposium organized by Bhabha Atomic Research Centre, Anushakti Nagar, Mumbai, 29th March 2019.

Mudgil, Y. Presentation on *Current insights in regulation of meristem organization* in workshop on Teaching and Learning Skills in Plant Development and Embryology, Savitribai Phule Pune University, 27th April 2018

Nindawat S. and Agrawal, V. Presented a poster on *Green synthesis of silver nanoparticles using Arabian Primrose root extract and evaluation of their anti-cancer and anti-microbial potential* in the ISNSCON 2018, 6th World Congress on Nanomedical Sciences at Vigyan Bhawan, New Delhi, 7th to 9th January, 2019.

Nindawat S. and Agrawal, V. Presented a poster on *Fabrication of silver nanoparticles using Arnebia hispidissima (Lehm.) A. DC. Root Extract and Unravelling their potential biomedical applications* in the 3rd Annual Conference of Indian Society of Nanomedicine (Nanobiotech-2018) held at AIIMS, New Delhi from 24th to 27th October, 2018.

Prakash, S. and Deswal R. Presentation on *Analysis of Brassica juncea leaf protein corona formed on the surface of gold nanoparticles in vitro* in 2nd International Conference on Nanobiotechnology for Agriculture Detection, Conservation and Responsible Use of Natural Resources at Aditya Bhawan Auditorium, National Institute of Solar Energy (NISE), Gwal Pahari Gurugram, 13th -14th December, 2018

Priti, Uniyal, P.L. Presentation on *Amino acid and Fatty acid profiles of wild edible fern Nephrolepis cordifolia (L.) C Presi* in International Conference on Next Generation Pteridology: The Indian Perspective at Dr BN Dutt Smriti Mahavidyalaya, Hatgobindapur, Burdwan (WB). 8-10 March 2019.

Rajput S. and Agrawal, V. Presented a poster on *In vitro micropropagation, evaluation of genetic fidelity and antioxidant levels in the regenerants of Atropa acuminata Royle ex Lindl., a critically endangered medicinal herb* in International conference on Trends in Plant Sciences and Agrobiotechnology 2019 at Indian Institute of Technology Guwahati, February 14-16, 2019.

Rao, K.S. delivered Prof. R.R. Das Memorial Lecture at School of Studies in Botany, Jiwaji University, Gwalior, 1<sup>st</sup> March 2019.

Sharma, B. and Deswal R.

Presented poster on *Hippophae rhamnoides a cold tolerant wonder plant with potential biomedical and nanotechnological applications* in 6th World congress in Nanomedical Sciences and Chemistry Biology Interface 2019 and Conference on Science and Technology for the Future of Mankind at Vigyan Bhawan, New Delhi, 7th -9th January, 2019.

Oral presentation on "Nanobiotechnological potential of the underutilized Himalayan shrub, Seabuckthorn for decontaminating fabric dye containing waste water in 2nd National Conference of Seabuckthorn Association of India on *Seabuckthorn-Technologies for Cultivation Environmental Conservation Nutrition*

*Security and Health Protection* by Seabuckthorn Association of India at Hotel Peterhoff, Shimla, 23-25 October 2018.

Presented poster on *Analyzing the role of Nitric oxide (NO) in Dioscorea alata tuber for managing its post-harvest shelf life* in International conference on biotechnological innovations in food and Health care (Bifhc 2019) at BITS PILANI Dubai Campus, 27 - 28 January, 2019 ,

Singh T. and Agrawal, V. Presented interactive poster on *Protocol for the isolation, characterization of bioactive compounds from Plumbagozeylanical roots and their elicitation through abiotic elicitors* in International conference on Trends in Plant Sciences and Agrobiotechnology 2019" held at Indian Institute of Technology Guwahati, Assam, 14th to 16th February, 2019.

Thakur, J., Priti, Uniyal P.L. and Pandey A.K. Presentation on *Status survey, reproductive biology, genetic diversity and conservation of Crepidium acuminatum* in National conference Cum Workshop on Recent Advances in Orchidology with special emphasis on Biology, climate change, conservation and commercialization, floriculturally and therapeutically important taxa and orchid show, CIARI, Port Blair, 15-17 Feb 2019.

Yadav R. and Agrawal, V. Presented poster on *Green synthesis of silver nanoparticles using Piper longum L. leaf extract and their strong bio-efficacy studies against Human cervical cancer cell line (HeLa) and Malaria and Dengue vectors* in the 3<sup>rd</sup> Annual Conference of Indian Society of Nanomedicine at AIIMS, New Delhi, India, Oct 24-27<sup>th</sup>, 2018.

Yadav, K. and Deswal R. Presented poster on *Advance in Antifreeze Protein Research and their Applications* in 2nd National Conference of Seabuckthorn Association of India on *Seabuckthorn-Technologies for Cultivation Environmental Conservation Nutrition Security and Health Protection* by Seabuckthorn Association of India at Hotel Peterhoff, Shimla, 23-25 October 2018.

#### **National/International MoUs signed**

International: MoU Between University of Delhi and Samarkand State University (SSU), Samarkand, Uzbekistan to develop course curricula in Medicinal Plant Biotechnology.

Research collaboration with the National Institute of Malaria Research (NIMR), New Delhi.

#### **Students under Exchange Programme**

##### **Outgoing:**

Ms. Laishram Sundari Devi visited Purdue University, Lafafayette, during 28.02.18 to 28.08.18 as an Indo-US GET intern.

Ms. Priyanka Rathore visited Department of Genetics, University of Leicester UK from 01.06.18 to 30.09.18 under Newton-Bhabha Ph.D. placement programme.

#### **Extension and Outreach Activities**

Prof. R. Geeta delivered a lecture entitled "Apes .... ancestors, cousins or us?" in the DST-INSPIRE Programme for school students organized by Indira Gandhi National Tribal University, Amarkantak, 6 -10, July, 2018.

Prof. S. Lakhanpaul delivered a lecture entitled "Biology: A Gateway to the mysteries of Life" in the DST-INSPIRE Programme for the school students organized by Indira Gandhi National Tribal University, Amarkantak; 6 - 10 July, 2018.

A Nukkad Natak on the theme of "Survival of the fittest" was organized by the students of Botany Department on 1<sup>st</sup> March, 2019 on the occasion of Annual Flower Show organized by University of Delhi.

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

Ph.D. - 20

M.Phil. - 3

**Faculty Strength:** 20**Other Significant Information:**

Department organized UGC sponsored Refresher Course in Life Sciences during July 17-August 06, 2018; Coordinated by Prof. Rajesh Tandon, Prof. S. Goel and Dr. Sandip Das.

Shruti Nindawat, Research Scholar was awarded Best Poster Award for her work entitled "Green synthesis of silver nanoparticles using *Arabian Primrose* root extract and evaluation of their anti-cancer and anti-microbial potential" in the ISNSCON 2018, 6th World Congress on Nanomedical Sciences held at Vigyan Bhawan, New Delhi from 7th to 9th January, 2019.

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**CHEMISTRY****Major Activities and Achievements**

The Department of Chemistry is a premier research Department of the country and imparts M.Sc. teaching and training in advanced areas of Chemistry. The spectrum of research areas ranges from experimental to theoretical and computational studies on bio-organic chemistry, chemical biology, coordination chemistry, electrochemistry, green chemistry, material chemistry, medicinal chemistry, natural products, nano-chemistry, polymers, synthetic chemistry, etc. In the last one-year, Faculty have awarded 62 Ph.D. and published several research papers in high impact journals. The Department arranged several lectures and colloquia by eminent speakers, which imparted advanced knowledge in contemporary areas. Apart from collaborating with international experts, faculty members were invited to share their research findings through keynote, plenary and invited lectures in National and International conferences and Institutions. Extramural research projects secured by our Faculty facilitate development and up-gradation of state-of-the-art laboratory facilities and training research scholars. Many faculty members were conferred prestigious medals and honors. One faculty member is Fellow of Indian Academy of Science.

**Honours/Distinctions**

Prof. Ramesh Chandra

President – World Congress of Nanomedical Sciences 7<sup>th</sup> – 9<sup>th</sup> January, 2019

Millennium Plaques of Honour Award (Life Time Achievement Award for Contribution in Science & Technology) for 2017-2018, (Awarded by Indian Science Congress Association (ISCA) at 105th Indian Science Congress, held at Manipal March 16, 2018)

Prof. Rama Kant: Elected Member of CRSI Council (2017-2020) and Member of Sectional Committee of Chemistry, Indian Academy of Sciences (2019-2021).

Prof. D. S. Rawat: Sectional President (Chemical Sciences), Indian Science Congress Association (2019 - 2020).

Dr. S. Kaur-Ghumaan: Selected as Member, Global Young Academy, Halle, Germany (2019-2024).

**Publications**

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,  $\{\text{Na}_2[\text{Cd}(\mu_5\text{-}\kappa^3\text{-}\text{OAc})(\mu_3\text{-}\kappa^2\text{-}\kappa^3\text{-}\text{OC}(\text{O})^i\text{Bu})(\mu_3\text{-}\kappa^1\text{-}\kappa^2\text{-}\text{OC}(\text{O})^i\text{Bu})_2] \cdot 2^i\text{BuC}(\text{O})\text{OH}\}_\infty$ . *Inorganica Chimica Acta*, 489, 126–131.

- Aggarwal, L., Biswas, P. (2018). Hydration Water Distribution around Intrinsically Disordered Proteins. *The Journal of Physical Chemistry B*, 122, 4206-4218.
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- Baldi, A., Chaudhary, M., Sethi, S., Chandra, R., Madan, J. (2018) Armamentarium of nanoscaled lipid drug delivery systems customized for oral administration: In silico docking patronage, absorption phenomenon, preclinical status, clinical status and future prospects. *Colloids Surf B Biointerfaces*, 170, 637-647.
- Batra, N., Rajendran, V., Agarwal, D., Wadi, I., Ghosh, P.C., Gupta, R.D., Nath, M. (2018). Synthesis and Antimalarial Evaluation of [1,2,3]-Triazole-Tethered Sulfonamide-Berberine Hybrids. *ChemistrySelect*, 3(34), 9790-9793.
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- Cancer Cells: Design, Synthesis, In silico Docking and In Vitro Cytotoxicity Analysis: Curcumin Knoevenagel Condensates improved Anticancer activity against Human Cervical Cancer Cells. *Journal of Biomolecular Structure and Dynamics*, 27, 1-19.
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## **/ . Book**

Madan, J., Chandra, R., Sharma, R. (Ed.) (2018). *Silver nanoparticles in drug delivery: From bench to bedside*. Lap Lambert Academic Publishing, ISBN: 978-613-7-32812-5.

## **Book Chapters**

Chidambaram, S.B., Ray, B., Bhatt, A., Mahalakshmi, A.M., Sunanda, T., Jagadeeswari, P., Gowrav, M.P., Chandra, R., Sakharka, M.K. (2019). Mitochondrial targeted drug delivery in neurodegenerative diseases. Publisher: Elsevier.

Sengar, V., Jyoti, K., Jain, U.K., Katare, O.P., Chandra, R., Madan, J. (2018). Lipid nanoparticles for topical and transdermal delivery of pharmaceuticals and cosmeceuticals: *A glorious victory in Lipid Nanocarriers for Drug Targeting*, chapter 10. Publisher: Elsevier. ISBN: 978-0-12-813687-4.

Sakharkar, M.K., Rajamanickam, K., Babu, C.S., Madan, J., Chandra, R., Yang, J. (2018). Preclinical: Drug Target Identification and Validation in Human” chapter 20665 in *Encyclopedia of Bioinformatics and Computational Biology*, Publisher: Elsevier. DOI: 10.1016/B978-0-12-811414-8.20665-2.

Tomar, V., Mazumder, M., Chandra, R., Yang, J., Sakharkar, M.K. (2018). Small Molecule Drug Design, in *Encyclopedia of Bioinformatics and Computational Biology*, Publisher: Elsevier. DOI: 10.1016/B978-0-12-811414-8.20157-0

Kumari, R.M., Sharma, N., Gupta, N., Chandra, R., Nimesh, S. (2018). Synthesis and evolution of polymeric nanoparticles: Development of an improved gene delivery system. Chapter 11 in book: Design and Development of New Nanocarriers, Editor: *Alexandru Mihai Grumezescu*, Publisher: Elsevier, William Andrew Publications. ISBN: 978-0-12-813627-0.

Gulati, A., Kakkar, R., (2018). DFT studies on storage and adsorption capacities of gases on MOFs. Chapter 6 in book: Density Functional Theory: Advances in Applications. (Eds.) *P. Ramasami*, pp. 18.

Nirwan, S., Kakkar, R. (2019). Rhinovirus RNA Polymerase: Structure, Function and Inhibitors. Chapter 11 in book: Viral Polymerase. (Eds), Satya P. Gupta. Elsevier, (pp. 301-331).

## **Faculty serving as editors / members of editorial board**

### **Prof. Ramesh Chandra**

Int. J. Human Genetics, India

J. Heterocyclic Communications

Archive of Organic Chemistry, ARKIVOC, Switzerland

Int. J. Artificial Cells, Blood Substitutes and Biotechnology, Canada

Artificial Cells, Nanomedicine and Biotechnology, Canada

Indian Journal of Biochemistry and Biophysics (CSIR)

Guest Associate Editor, Cell Biochemistry and Biophysics, Vol. 43-1/2005 and Vol. 44-1/2006, Humana Press, New York.

### **Prof. D. S. Rawat**

Associate Editor of Scientific Reports (Nature Publisher), 2019 – 2021

Associate Editor of RSC Advances, 2018 – 2019



## Research Projects

**DST-SERB**, 2019-2022, Diversity Oriented C-H functionalization of Arene/Heteroarene, Prof A.K.Verma, Rs. 38,19,000/-

**DRDO**, 2019-2022, Design of Novel Fluorinating Reagent: Application in the Synthesis of Fluoro Organic Molecules, Prof. A.K. Verma & Prof. Ramesh Chandra (Co-PI) Rs. 39,35,000/-

**CSIR**, 2019-2022, Design of Novel Approaches for the Synthesis of Highly Functionalized N-Heterocycles: An application in Total Synthesis of Isoquinoline Alkaloids. Prof. A. K. Verma, Rs. 28,00,00,000/-

**DST-BRICS**, 2019-2022, Biofunctional Theranostics Nanocomplexes for combined Therapy of Solid cancer. Dr. Indrajit Roy, Rs. 43,12,054/-

**CSIR**, Dr. Sandeep Kaur, 2018-2021, Design, Synthesis and Characterization of Earth-Abundant Metal Complexes (Co, Fe, Ni) as Electrocatalysts for Proton Reduction. Rs.15,75,000/-

**DRDO (ARMREB)**, Prof. Ramesh Chandra, 2018, Design of Novel Fluorinating Reagent: Application in the synthesis of Fluoror organic molecules. Rs. 40,00,000/-

**CSIR**, Dr. Surendra Singh, 2018, Synthesis and Development of Chiral Metal Organic Frameworks and Their Application in Asymmetric Catalysis. Rs. 28,06,000/-

**UGC**, Dr. Alok Kumar Rai, 2018-2023, Start-up research Grant. Rs. 10,00,000/-

**DST-SERB**, Dr. Raj Kishore Sharma, 2018-2020, Physicochemical performance evolution by tuning the growth variables of holey graphene nanoribbon carbon soot derived aerogel based asymmetric supercapacitor. Rs. 39,00,000/-

**DST-SERB**, Dr. Firasat Hussain, 2017-2020, Synthesis, characterization and catalytic applications of organic-inorganic hybrid 3d-4f heterometallic polyoxotungstates. Rs. 32,00,000/-

**DST-SERB**, Prof. R. Nagarajan: 2017-2020, Exploring multifunctional properties of the solid solutions of rare-earth oxides with oxides of p-block metal ions possessing related structures. Rs. 33,68,695/-

**DST-SERB**, Prof. Rama Kant, 2017-2020, Electrochemical Impedance at Rough and Porous Electrodes: Theory and Experimental Corroboration. Rs. 38,50,440/-

**DST-SERB**, Dr. Sasanka Deka, 2017-2020, Development of advanced nanomaterials for benchmark electrocatalytic hydrogen and oxygen evolution from water. Rs. 35,00,000/-

**DST-SERB**, Prof. Parbati Biswas, 2017-2020, Hydration Pattern of Misfolded proteins. Rs. 43,39,940/-

**Nanomission**, Dr. Indrajit Roy, 2017-2020, Drug-loaded magnetic-nanoscale metal-organic frameworks (MNMOFs) for applications in targeted drug delivery and light-activated therapy. Rs. 54,30,316/-

**UGC-UKIERI**, Dr. Indrajit Roy, 2017-2020, Multifunctional Nanoparticles in Cancer Therapy. Rs. 34,11,828/-

**DST-SERB**, Dr. Firasat Hussain, 2017-2018, Synthesis, characterization and catalytic applications of organic-inorganic hybrid 3d-4f heterometallic polyoxotungstates. Rs. 3500000/-

**CSIR**, Dr. P Venkatesu, 2017-2020, The attenuating ability of ionic liquids against the thermal, chemical and cold-induced unfolding of proteins. Rs. 18,00,000/-

**DST-SERB**, Dr. P Venkatesu, 2017-2020, The phase transition of thermo-responsive polymer in the presence of proteins as stimuli. Rs. 40,00,000/-

**DST-SERB**, Dr. Surendra Singh, 2017-2020, Development of efficient and reusable chiral catalysts for the asymmetric Fridel-Craft reaction for the synthesis ofbiological important molecules. Rs. 35,93,480/-

**DST-WTI**, Prof. R. K. Sharma, 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/-

**DRDO**, Prof. A. K. Prasad, 2018-2020, CARS "Synthesis of flame-retardant breathable moisture-cure Polyurethane (PU) based adhesive" under CFEES S&T project "Development of Multifunctional Moisture Barrier Fabric for Fire Protective Suits". Rs. 44,37,600/-

**DRDO-DIPAS**, Prof. A. K. Prasad, 2018-2019, Synthesis and study of aggregation behaviour of sugar-PEG based amphiphilic co-polymers for the encapsulation of dihydropyridine derivatives. Rs. 9,60,000/-

**DST-SERB**, Prof. S. Uma, 2017-2020, Exploratory Synthetic Investigation to Recognize Novel Solid Oxide Materials with an Emphasis on Layered Structures. Rs. 34,28,480/-

**DST-DFG International Collaboration**, Prof. S. K. Sharma, 2017-2020, Chemo-enzymatic synthesis of multivalent dendritic architectures for the control of neurodegenerative disorders. Rs. 38,60,980/-

**DST-SERB**, Dr. Alok Kumar Rai, 2016-2021, Ramanujan Fellowship Research Grant, Rs. 7,00,000/- per year.

**DST-SERB**, Prof. Ramesh Chandra, 2016-2019, Synthesis and Characterization of Eco-friendly Gold supported LDH catalyst, application in Synthesis of Organic Compounds. Rs. 49,61,440/-

**DST-SERB**, Prof. Ramesh Chandra, 2016-2019, Design, synthesis and biological screening of chiral pyrazinoindoles and pyrazinopyrroles as potential antibacterial agent. Rs. 43,26,000/-

**CSIR**, Prof. Ramesh Chandra, 2016-2019, Synthesis and Biological Evaluation of a Novel Class of Anti-tumor drugs based upon the natural alkaloid noscapine. RS. 29,76,540/-

**DST-SERB**, Prof. Ramesh Chandra, 2016-2019, Identification Of 5-Hydroxymethylcytosine Markers and Design of Epigenetic drugs for Head and Neck Carcinomas. Rs. 70,00,000/-

**DST-SERB**, Prof. S. K. Sharma, 2016-2018, Design and Synthesis of Oligoglycerol and PEG based Nanocarriers for Biomedical Applications. Rs. 47,26,000/-

**SERB**, Prof. R. Gupta, 2016-2019, Molecular Assemblies and Coordination Polymers Decorated with Hydrogen Bonds: Recognition, Binding, and Activation of Analytes/Substrates, Rs. 49,35,040/-

**CSIR**, June 1<sup>st</sup> 2016-May 31<sup>st</sup> 2019, Metal Complexes with Secondary Coordination Sphere: Recognition and Binding of Analytes and Activation of Substrates, Prof. R. Gupta ,Rs. 6,00,000/-

#### **Patents Filed/Granted**

S.K. Awasthi\*, P. Singh Novel Hybrid 1,2,4,5-Tetraoxane and analogs as Antimalarial drugs., (Indian Patent filed in 2018).

#### **Seminars Organized**

Awasthi, S. K. *Recent Trends and Advancements in Chemical Sciences*, 29<sup>th</sup>-31<sup>st</sup> March 2019. Funded by: Delhi University, DST, DBT, CSIR, UGC.

#### **Conferences Organized**

Prof. Ramesh Chandra

6th World Congress on Nanomedical Sciences - ISNSCON-2018 and Satellite conference of 'Science and Technology for the Future of Mankind', 7<sup>th</sup>-10<sup>th</sup> January, 2019.

International Conference on Emerging Trends in Drugs Development and Natural Products (ETDDNP-2018), 12<sup>th</sup>-14<sup>th</sup> January, 2018.

Dr. Rakesh Kumar, 6th World Congress of International Society on Nanomedical Science, 7<sup>th</sup>-10<sup>th</sup> January, 2019.

Dr. Rakesh Kumar, National Conference on Recent Trends and Advances in Chemical Science, 29<sup>th</sup>-31<sup>th</sup> March, 2019.

#### **Seminar/Conference Presentations**

A. K. Rai, 3rd International Conference on Soft Materials (ICSM 2018), Malaviya National Institute of Technology (MNIT), Jaipur, 9-14th December, 2018.

D. S. Rawat

Nano catalysis in organic conversions National seminar on role of science and technology in nation building, Indian Science Congress Asspciation, Haridwar Chapter, GB Pant Agriculture University, Pantnagar, October 13, 2018.

Keynote lecture, Molecular hybridization in drug discovery: Challenges and opportunities National seminar on chemistry in interdisciplinary research, Nagaland University, Nagaland, 9-10th November, 2018.

Fundamentals of NMR spectroscopy and its role in structure determination, Daulat Ram College, Delhi University, October 9, 2018.

Green chemistry by nanocatalysis National Conference on Emerging trends and advances in chemical science, St. Stephen's College, Delhi University, September 26, 2018.

NMR Spectroscopy: Basic introduction to structure determination Kirorimal College, Delhi University, September 18, 2018.

Organic Spectroscopy: Sailing through confluence of introduction & structure determination, National Institute of Technology, Jalandhar, 17 August, 2018.

Spectrum to Structure, UGC Refresher Course, UGC-HRDC Center, Kumaun University, Nainital. July 30, 2018.

Organic Spectroscopy, UGC Refresher Course, UGC-HRDC Center, Kumaun University, Nainital. July 30, 2018.

Lead identification via rational drug design, ISCB National Conference on Role of Chemistry & Biology Interface in Drug Research, Grand Tulip Hotel, Lucknow. June 23, 2018.

Keynote lecture, An art of drug discovery, HNB Central University, Srinagar. 27-28 April, 2018.

Green Chemistry by Nano-Catalysis: Nano-Materials for Organic Transformations, National seminar on frontiers in heterogeneous catalysis, MS University, Vadodara, 8th-9th December, 2018.

National seminar on quality improvement in higher education-Gyan Kumbh 2018 Uttarakhand Government and Patanjali Yog Peeth, Haridwar, November 3-4, 2018.

I. Roy, 11th International Conference on Nanophotonics (ICNP 2018, Wroclaw University of Science and Technology, Wroclaw, Poland, July 2-6, 2018.

Khan and F. Hussain, International Conference on "Frontiers at the Chemistry-Allied Sciences Interface", Department of Chemistry, University of Rajasthan, Jaipur. 21st-22nd December 2018.

Road of drug discovery: from idea to bench to market, National conference on chemistry and human health, Aurobindo College, University of Delhi, 8th March, 2019.

Organic spectroscopy and its role in structure determination, ARSD College, University of Delhi, 1st March, 2019.

NMR spectroscopy: basic introduction to structure determination, Sriram Institute, Delhi, 27th February, 2019.

NMR: Basic introduction to structure determination, 3rd One day National Conference: New Horizons in Drug Discovery and Development, the Role of NMR, Jamia Hamdard, New Delhi, 18th February, 2019. D. S. Rawat, Chemistry, sustainable development and human health, Hansraj College, University of Delhi, 16th March, 2019.

Science of medicinal chemistry in the discovery of medicines: From ideas to trenches to market, 11th NIPER (R) Symposium on Natural products based therapeutics in drug development: NIPER Rae Bareilly, 14-15th February, 2019.

Lead identification via rationale drug design, 25th ISCB International Conference, Trends in chemical and biological sciences: Impact on health and environment, Lucknow, 12th-14th January, 2019.

P. Biswas

Dynamics of Dendrimers with Semiflexibility and Excluded Volume, Conference on Nonlinear System and Dynamics-2018, SCIS, JNU, New Delhi, 11-14th October, 2018.

Conformational Transition in Dendritic Polymers, International Conference on Polymer Science and Technology, SPSI-MACRO-2018, IISER Pune, 19th-22nd December, 2018.

N. Kumar, D. Sood, P. Jain, G. Pandey, S. Sharma & R. Chandra, Noscapine Structure-guided Potential Analogue Designing and Pharmacological Evaluation employing Chemoinformatics Approach. Integrative Chemistry, Biology & Translational Medicine - (ICBTM), University of Delhi, Delhi, India. 25th-26th February, 2019.

Hydration Pattern of Intrinsically Disordered Proteins, Conference on Advanced Simulation Methods: DFT, MD and Beyond (ASM2019), IIT Delhi, 6th-10th March, 2019.

How do Proteins Misfold? Simple Models to Real Proteins, Conference on Recent Advances in Dynamics at the Interface of Chemistry and Biology (DICB-2019), IISc Bangalore, 18-20th February, 2019.

R. Kumar

106th Indian Science Congress- Future India & Technology, Lovely Professional University, Jalandhar, Punjab. 3rd-7th January 2019.

Asian Network for Natural and Unnatural Materials (annum VI), Department of Chemistry and Biomolecular Science, Gifu University, Japan, 27th July 2018.

R. Chandra

Keynote lecture, A Journey from Bench to Bedside Noscapine: Opium Alkaloid, Japan Advanced Institute of Science and Technology, Ishikawa, Japan, 4th October 2018.

Keynote lecture, Noscapine Journey from Beside to Bed, Science and Technology in Society forum (STS forum), Kyoto, Japan, 7th October 2018.

Group Discussion on Development of Anticancer Drugs. Drexel University, 3141 Chestnut St, Philadelphia, USA, Princeton University, New Jersey, USA, 13th June 2018.

I. Roy, 3rd International Symposium on Physics, Engineering and Technologies for Bio-Medicine, National Research Nuclear University (MEPhI), Moscow, Russia, 13th-17th October, 2018.

Keynote lecture, A Journey from Bench to Bedside Noscapine: Opium Alkaloid- A Potential Chemotherapeutic Agent, National University of Lesotho, Lesotho, South Africa, 17th – 16th June 2019.

Keynote lecture, A Journey from Bench to Bedside Noscapine: Opium Alkaloid, Department of Physiology, School of Medicine, Wayne State University, USA, 13th May 2019.

Keynote lecture, Noscapine Analogues: Potential Chemotherapeutic Agent, Department of Physiology, School of Medicine, Wayne State University, USA 18th April 2019.

Keynote lecture, A Journey from Bench to Bedside Noscapine: Opium Alkaloid- A Potential Chemotherapeutic Agent, Department of Biotechnology, Chemistry and Pharmacy, University of Siena, Italy, 8th February 2019.

R. Kant

Modelling of EIS Response of Supercapacitor. National Symposium on Electrochemistry in Materials and Devices, Bhavnagar, 28-29th September, 2018.

Modelling Fundamental Electrochemistry and Devices. Twentieth National Convention of Electrochemists (NCE-20), VIT Vellore, Tamilnadu India, 7-8 June, 2018.

Keynote lecture, Complexities in Modeling of Electrochemical Processes. 16th Theoretical Chemistry Symposium (TCS), BITS Pilani. 13-16 February, 2019.

R. Kant, Multiscale Modeling of Electrochemical Systems: Disordered and Nanostructured Electrodes, Twelfth International Symposium on Advances in Electrochemical Science and technology (iSAEST-12), Hotel Trident, Chennai, India, 8th-10th January, 2019.

S. K. Awasthi

Prof. R D Tiwari Memorial Lecture, organized by Vigyan Parishad, Prayag, Allahabad, UP, 24 October, 2018.

Newer Approach for Antimalarial Drug Discovery “The Platinum Jubilee Lecture 106th The Indian Science Congress”, Jalandhar, January 3-7, 2019.

R. K. Hazra, *Multi-Carrier Systems in lateral (Electrical) and Transverse (Magnetic) Confinements by Multi-pole Expansion: Atoms, molecules to Superlattices*, 16<sup>th</sup> Theoretical Chemistry Symposium 2019, BITS-Pilani, Rajasthan, India, 13<sup>th</sup>-16<sup>th</sup> February, 2019.

S. Uma, Basic Concepts to Endless Prospects, One day workshop on Inorganic Solid State Chemistry, Department of Chemistry, University of Bangalore, February 2019.

V. Das and F. Hussain, International Conference on “Frontiers at the Chemistry-Allied Sciences Interface”, Department of Chemistry, University of Rajasthan, Jaipur. 21st-22nd December 2018.

### Poster Presentations

A. Singh, M. Singh, S. Kakkar, R. Chandra, Design and Synthesis of Bioactive Pyrazinoindoles, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

Gagandeep, S. K. Kandi, P. Kumar, K. Mukhopadhyay, and D. S. Rawat, Lead optimisation of antibacterial C-5 Curcuminoids against Staphylococcus aureus and their mechanistic investigations, National Seminar on Frontiers in Heterogeneous Catalysis (HETCAT-2018), Grand Mercury (Surya Place) Opp Parsi Agiary, Sayajigunj, Vadodara, India. 8-9th December, 2018.

G. K. Mishra, R. Kant, Phenomenological Theory of EIS Response for Supercapacitors, Twentieth National Convention of Electrochemists (NCE-20), VIT Vellore, 7-8 June, 2018.

H. Sehrawat, R. Tomar, V. Tomar, R. Chandra, Synthesis and Characterization of 1,3-Benzodioxole-MIM/Py Ionic liquids with their anticancer activity on various cell lines, "Thieme Chemistry: Science of Synthesis", Department of Chemistry, University of Delhi, September 28th, 2018.

H. Chugh, P. Kumar, N. Kaur, V. Tomar & R. Chandra, Interaction of Noscapine with Blood Proteins. National Conference on Science of Synthesis, "Thieme Chemistry: Science of Synthesis", Department of Chemistry, University of Delhi, September 28th, 2018.

N. Kumar & S. Kaur-Ghumaan, A tetranuclear iron complex: substitution with triphenylphosphine ligand and investigation into electrocatalytic proton reduction, National Workshop on Thieme Chemistry: Science of Synthesis, Department of Chemistry, University of Delhi, 28th Sep.-2018.

Neha, R. Kant, Dynamics of Star Polymer Nanoparticle in External Fields, 23rd CRSI National Symposium in Chemistry, IISER Bhopal, 13-15 July 2018.

M. Kumar, S. Srivastav, R. Kant, Influence of Uncompensated Solution Resistance on Diffusion Limited Adsorption at Rough Electrode, Twentieth National Convention of Electrochemists(NCE-20), VIT Vellore, 7-8 June, 2018.

U. Gulati, U. C. Rajesh, D. S. Rawat, Design and synthesis of RGO@CuI composites and Ni@CuI core-shells as recyclable nanocatalysts for the synthesis of value added synthons, National Seminar on Frontiers in Heterogeneous Catalysis (HETCAT-2018), Grand Mercury (Surya Place) Opp Parsi Agiary, Sayajigunj, Vadodara, India. 8-9th December, 2018.

S. Rawat, T. P. Gosain, R. Singh, D. S. Rawat, Design, synthesis, pharmacokinetic analysis and biological evaluation of indole derivatives as Mycobacterium tuberculosis membrane inhibitors, National Seminar on Frontiers in Heterogeneous Catalysis (HETCAT-2018), Grand Mercury (Surya Place) Opp Parsi Agiary, Sayajigunj, Vadodara, India. 8-9th December, 2018.

Thakur, V., Adnan, M., Prakash, G. V., Thirupathi, N., (2018) Synthesis, structural and optical studies of six-membered cycloplatinated guanidines,  $[Pt\{\square_2(C,N)\}\{\square_2(O,O\square-acac)\}]$ , 1st International Symposium on Main-group Molecules to Materials (MMM), IISC Bangalore, India, 28th-31st October, 2018.

Ujjval, R., Thirupathi, N., (2018) Reactivity studies of six-membered cycloplatinated guanidines,  $[Pt\{\square_2(C,N)\}(OC(O)CF_3)(DMSO)]$  with  $Ph_2P(CH_2)_nPPH_2$  ( $n = 1-3$ ), Efforts to unravel factors that determine C,N versus N,N coordination modes of N,N $\square$ ,N $\square$ -triarylguanidines in the products. 1st International Symposium on Main-group Molecules to Materials (MMM), IISC Bangalore, India, 28th-31st October, 2018.

V. K. Singh, A. Saini, R. Chandra, Manufacturing blood (cells) to deal with safety and supply concerns: Tissue engineering approaches using stem cells and other essential techniques, International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018".

A. Singh, M. Singh, S. Kakkar, R. Chandra, Design and Synthesis of Bioactive Pyrazinoindoles, International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

A. Awasthi, M. Singh, V. Tomar, R. Chandra, Synthesis of novel noscapine-amino acid conjugates for the potential treatment of cancer, International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and "Conference on "Science and Technology for the Future of Mankind" at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

A. Tomar, S. Mohapatra, S. V. Nair, A. K. Rai, & R. Chandra, Synthesis of Co<sub>3</sub>O<sub>4</sub> Nanoparticles Wrapped Within Full Carbon. Matrix as an Anode Material for Lithium Ion Batteries, International Conference on "6th world congress on Nanomedical Sciences-ISNSCON-2018", "Chemistry-Biology Interface 2019" and

“Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

C. Chaudhary, S. Sharma , R. Chandra, Bioreceptor less biosensing platform for efficient detection of serotonin neurotransmitter, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

D. Sood, N. Kumar, V. Tomar, R. Chandra, Cancer antigenic peptide presentation and optimization employing immunoinformatics and structural biology approaches, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

D. Tiwari & R. Chandra, Design And Engineered Pegylation Technology Biologics Open The New Vision Of Biotherapeutics, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

F. Hussain, ISNS (International Society for Nanomedical Sciences) 6th World Congress on Nanomedical Sciences, Department of Chemistry, University of Delhi & Jamia Hamdard at Vigyan Bhawan, New Delhi. 7th-9th January 2019.

G. Rathee, R. Chandra, A New Emergent Biocompatible Nifeti Layered Double Hydroxide Adsorbent For Ultrafast Removal Of Anionic Organic Dyes, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

G. K. Mishra, R. Kant, Phenomenological Theory for Dynamic Energy Density and Power Density for Supercapacitors, Twelfth International Symposium on Advances In Electrochemical Science and technology (iSAEST-12), Hotel Trident, Chennai, India, 8-10 January, 2019. (\*Awarded Best Poster Award of the Symposium\*)

Gagandeep, S. K. Kandi, P. Kumar, K. Mukhopadhyay, D. S. Rawat, C-5 Curcuminoids: Synthesis and antibacterial activity against Staphylococcus aureus and their mechanistic studies, 25th ISCB Conference-2019, Hotel Golden Tulip, Lucknow, India, 12th-14th January, 2019.

H. Chugh, P. Kumar, N. Kaur, V. Tomar & Ramesh Chandra, Interaction of Noscapine with Blood Proteins, “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

H. Sehrawat, R. Tomar, N. Kumar, V. Tomar, R. Chandra, Synthesis, In-silico and In-vitro Evaluation of Novel Noscapine based Ionic Liquids showing Potential Anticancer activity, “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

H. Kaur and R.K. Hazra; 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, 16th Theoretical Chemistry Symposium, BITS Pilani, 13th-16th February 2019. (\*Awarded Best Poster Award of the Symposium\*)

J. Madan, R. K. Sodhi, S. K. Chahal, M. A. Babu, R. Chandra, Development And Evaluation Of Novel Diclofenac Diethylamine Gel For Anti-Inflammatory And Analgesic Activity, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and

“Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

K. Jyoti, J. Madan, M. A. Babu, O. P. Katare, A. Katyal, R. Chandra, Inhalable MUC-1 peptide vaccine for the treatment of lung cancer: Opportunities and Challenges, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

K.V. Thomas Endowment Seminar & International symposium on New Trends in Applied Chemistry (NTAC-2019), Post Graduate & Research Department of Chemistry, Sacred Heart College, Kochi, India, 14-15th January-2019.

L. Aggarwal and P. Biswas, Effect of Mutations on Hydration Environment of Amyloid- $\beta$ , ASM2019, IIT Delhi, 9th March, 2019.

L. Aggarwal and P. Biswas, Hydration Water Distribution around Intrinsically Disordered Proteins, 16th Theoretical Chemistry Symposium-2019, BITS Pilani, 13th-16th February, 2019.

L. Kumar, R. Tomar, V. Tomar, R. Chandra, Base-Free Oxidation Of Aldose Using Solid Support Catalyst, 6th world congress on Nanomedical Sciences-ISNSCON-2018”.

Neha, R. Kant, Dynamics of Generalised Gaussian Polymeric Structure with Nanoparticles in External Fields, 16th Theoretical Chemistry Symposium, BITS Pilani, 13th-16th February, 2019.

M. Singh, E. Solel, E. Keinan, O. Reany, S M S Chauhan, R. Chandra, Aza-Bambusurils En Route To Anion Transporters. International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

M. Chaudhary, U. K. Jain, J. Madan, R. Chandra, Identification Of Promising Molecular Targets For Curcumin And Its Novel Analogs By Molecular Docking Technique, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

M. Kumar, R. Kant, Theory for Impedance of Two Step Electron Transfer Process at Rough and Fractal Electrodes, 16th Theoretical Chemistry Symposium, BITS Pilani, 13th-16th February, 2019. (\*Awarded Best Poster Award of the Symposium\*)

M. Rawat, D. S. Rawat, CuO@NiO and CuI@Al<sub>2</sub>O<sub>3</sub> nanoparticles catalysed synthesis of biologically active heterocycles, 25th ISCB Conference-2019, Hotel Golden Tulip, Lucknow, India, 12th-14th January, 2019.

N. Sharma, N. Gupta, R. Chandra, R. Manchanda, S. Nimesh, Polymeric Nanocarrier Assisted Drug Delivery For The Treatment Of Cancer, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

N. Singh, M. Singh, V. Tomar, R. Chandra, An Efficient and Stereoselective synthesis of novel pyrazinopyrrole derivatives, “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

N. Kumar, R. Chandra, Large-scale flexibility analysis of protein-peptide fragments: An Advanced approach to design potential antibacterial peptide, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7<sup>th</sup>-9<sup>th</sup> January, 2019.



P. Aggarwal & R.K. Hazra, Exact Formalism of Strongly Correlated of 2-D N-e (N=2,3,4,5..) Superlattices via Multipole Expansion, 16th Theoretical Chemistry Symposium held at BITS Pilani, 13th-16th February 2019. (\*Awarded Best Poster Award of the Symposium\*)

R. Chandra, A Journey from Bench to Bedside Noscapine: Opium Alkaloid- A Potential Chemotherapeutic Agent. International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7<sup>th</sup>-9<sup>th</sup> January, 2019.

R. M. Kumari, N. Gupta, R. Chandra, S. Nimesh, Chitosan/siRNA nanoparticles: An efficient approach for breast cancer treatment, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7<sup>th</sup>-9<sup>th</sup> January, 2019.

R. Tomar, S. Nishimura, K. Ebitani & R. Chandra, One-Pot Synthesis Of Imines Using Hydrotalcite Supported Ceria Nanoparticles As Heterogeneous Catalyst. International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7<sup>th</sup>-9<sup>th</sup> January, 2019.

R. Tomar, I. Chandra, V. Tomar, & R. Chandra, Synthesis and Characterization of Novel Noscapine and its Analogues: Innovative Anti-Cancer Drug, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7<sup>th</sup>-9<sup>th</sup> January, 2019.

R. Tomar, V. Tomar, R. Chandra, Greener Approaches Towards Organic Transformation Using Heterogeneous Catalysis, “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7<sup>th</sup>-9<sup>th</sup> January, 2019.

R. Kaushik and F. Hussain, ISNS (International Society for Nanomedical Sciences) 6th World Congress on Nanomedical Sciences, Department of Chemistry, University of Delhi & Jamia Hamdard at Vigyan Bhawan, New Delhi. 7<sup>th</sup>-9<sup>th</sup> January 2019.

R. Kaushik and F. Hussain, International Conference on “Frontiers at the Chemistry-Allied Sciences Interface”, Department of Chemistry, University of Rajasthan, Jaipur. 21<sup>st</sup>-22<sup>nd</sup> December 2018.

R. Tomar & R. Chandra, Employment of Cerium-Based Catalyst in Organic Chemistry, Japan-India Symposium, School of Materials Science, Japan Advanced Institute of Science and, Technology, Ishikawa, Japan, 7<sup>th</sup> March, 2019.

S. Kaur-Ghumaan, P. Hasche & T. Beweries, Electrocatalytic proton reduction by PXCXP (X, X = O, O: O, S; S, S) Ni(II) pincer complexes, Hanse Chemistry Symposium, Leibniz Institute for Catalysis (LIKAT), Rostock, Germany, Nov.-2018.

S. Gupta and P. Biswas, Effect of pH on Size and Internal Structure of Poly(propylene imine) Dendrimers: A Molecular Dynamics Simulation Study, 16th Theoretical Chemistry Symposium-2019, BITS Pilani, 13<sup>th</sup>-16<sup>th</sup> February, 2019.

S.Sharma & R.K Hazra, Shell Structure and Paramagnetism of 3-D N-e Anisotropic (ellipsoidal) Quantum Dots: Exact Multi-Pole Expansion of Coulomb Interaction under Fermionic Exchange Symmetry, 16th Theoretical Chemistry Symposium, BITS Pilani, 13<sup>th</sup>-16<sup>th</sup> February 2019.

S. Rawat, T. P. Gosain, R. Singh, D. S. Rawat, Mycobacterium tuberculosis membrane inhibitors: Design, synthesis, biological evaluation and ADME analysis, 25<sup>th</sup> ISCB Conference-2019, Hotel Golden Tulip, Lucknow, India, 12<sup>th</sup>-14<sup>th</sup> January, 2019.

S. Singh, A. Singh, R. Chandra, C. Caffrey, B. Rathi, Activity Profile of Phthalimide Analogs Against Schistosomiasis: Synthesis, Anti-Schistosomal and Structure Activity Relationship, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

S. Nimesh, G. Arya, R. M. Kumari, N. Sharma, N. Gupta, R. Chandra, Nanomedicine Based Strategies For The Treatment Of Hypercholesterolemia And Related Cardiovascular Diseases, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”,

S. Kohli, R. Tomar, V. Tomar, R. Chandra, Direct Synthesis Of Imines From Benzyl Alcohols Using Gold Nanoparticles Supported Mgce-Hdo Composite, International Conference on “6th world congress on Nanomedical Sciences-ISNSCON-2018”, “Chemistry-Biology Interface 2019” and “Conference on “Science and Technology for the Future of Mankind” at Vigyan Bhawan, New Delhi, 7th-9th January, 2019.

T. Agarwal & S. Kaur-Ghumaan, 4-methylbenzene thiolate-bridged and 1,3,5-triaza-7-phosphaadamantane substituted Fe<sub>2</sub>S<sub>2</sub> core: Electrocatalytic hydrogen evolution studies, 17th Prof. K.V. Thomas Endowment Seminar & International symposium on New Trends in Applied Chemistry (NTAC-2019), Dept. of Chemistry, Sacred Heart College, Kochi, 14-15th January-2019.

U. Gulati, U. C. Rajesh, and D. S. Rawat, RGO@CuI composites and Ni@CuI core-shells as recyclable nanocatalysts for the synthesis of biologically active N-heterocycles, 25<sup>th</sup> ISCB Conference-2019, Hotel Golden Tulip, Lucknow, India, 12<sup>th</sup>-14<sup>th</sup> January, 2019.

V. Kaim, M. Natarajan, R. L. Kumawat, Md. Ehesan Ali & S. Kaur-Ghumaan, Mononuclear Ruthenium Phosphine Complexes: Synthesis, characterization and DFT calculations, 17th Prof.

. Singh and P. Biswas, Estimating the Mean First Passage Time of Protein Misfolding, 16th Theoretical Chemistry Symposium-2019, BITS Pilani, 13th-16th February, 2019.

V. Das and F. Hussain, ISNS (International Society for Nanomedical Sciences) 6th World Congress on Nanomedical Sciences, Department of Chemistry, University of Delhi & Jamia Hamdard at Vigyan Bhawan, New Delhi. 7th-9th January 2019.

V. Tomar, R. Tomar, R. Chandra, Emerging Implications of Nanoscale Based Drug Delivery Systems in Delivery and Targeting Tubulin Binding Agent, Noscapine And Its Analogs in Cancer Cells, Japan-India Symposium, School of Materials Science, Japan Advanced Institute of Science and, Technology, Ishikawa, Japan. 7th March, 2019.

### **National/International MoUs Signed**

Department of Chemistry, University of Delhi, Delhi with Japan Advanced Institute of Science and Technology, Japan, 2016-2019

Department of Chemistry, University of Delhi, Delhi with DIPARTIMENTO DI BIOTECNOLOGIE, CHIMICA E FARMACIA, UNIVERSITÀ DI SIENA, Italy

Department of Chemistry, University of Delhi and National Research Nuclear University MEPhI (Moscow, Russia)

### **Other Inter-Institutional Collaboration**

Prof. Ramesh Chandra collaboration with

- Prof. Satya Prakash, McGill University, Montreal, Canada.
- Prof. Christoph Arenz, Humboldt University of Berlin. Berlin, Germany
- Japan Advanced Institute of Science and Technology, Japan

- Prof. Maurizio Taddei, DIPARTIMENTO DI BIOTECNOLOGIE, CHIMICA E FARMACIA, UNIVERSITÀ DI SIENA, Italy.
- Dr. Meena Sakharkar, University of Saskatchewan, Saskatoon, Canada.

Dr. Alok Kumar Rai collaboration with

- Department of Materials Science & Engg., Chonnam National University, Gwangju, South Korea.
- Argonne National Laboratory, USA.

Prof. S. K. Awasthi collaboration with

- South Asian University, New Delhi,
- Jawaharlal Nehru University, New Delhi

### **Students Under Exchange Programme**

Prof. Ramesh Chandra – Dr. Vartika Tomar, Shastri Indo-Canadian Post Doctoral Fellowship 2017-18.

Prof. Ramesh Chandra – Snigdha Singh, Indo-Italy Exchange Program by MHRD & Italian Embassy Cultural Centre, 2018-19.

Prof. Ramesh Chandra – Aarushi Singh, JASSO student exchange program, 2019.

Prof. Ramesh Chandra – Ishita Chandra, JASSO student exchange program, 2018.

Dr. Surendra Singh – Mr. Dipankar Ghosh (Ph.D. Student), Department of Chemistry, University of Iceland, Duration 2 months, Erasmus + program.

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

Ph.D. 62

**Faculty Strength** 36

### **Other Significant Information**

The department currently has 600 M.Sc. and 300 Ph.D. scholars.

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## **ENVIRONMENTAL STUDIES**

### **Major activities and achievements**

The Department of Environmental studies 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) besides the supernumerary seats through an All India Entrance Test. Students come from varied academic backgrounds straddling various disciplines. Our Department has some of the best teachers, who are also engaged in frontline areas of research across basic ecological, environmental and applied environmental sciences. We also undertake research in socially relevant areas connected to national development and contribute to the problem solving of issues arising from environmental degradation. The research themes are focused on novel contributions, both in fundamental and applied aspects of ecology and the environment. Our faculty members regularly publish their research findings in top-tier peer-reviewed journals such as in Nature, Science, and other high-impact journals. Faculty have also secured extramural research projects which are used in developing state-of-the-art laboratory facilities and training young research scholars. The faculty members are recognized world leaders in their fields who widely collaborate with International experts and are regularly invited to share their research findings through delivering keynote and plenary lectures at National and International Institutions/conferences.

## Honours/Distinctions

Prof. M.K. Pandit- Awarded Ngee Ann Kongsi Distinguished Visiting Professor by National University of Singapore, Singapore.

Prof. Inderjit- Visited the University of Alberta in January 2018 as distinguished visitor. He was awarded the Distinguished Visitor Award by the University of Alberta, Canada in 2017.

Dr. Chirashree Ghosh

Awarded “Bharat Vikas Award” by Intellectuals’ Social Responsibility (ISRI, India) on 1st December 2018, at Bhubaneswar, Odisha.

“NESA Environmentalist of the Year Award-2018” awarded by National Environmental Science Academy (NESA) on 16th December 2018.

## Publications

Balyan, P., Ghosh, C., Das, S., and Banerjee, B.D. (2019). Spatio-temporal characterisation of Bioaerosols at diverse outdoor land-use sites in an urban environment. *Aerobiologia*. <https://doi.org/10.1007/s10453-019-09582-2>

Becerra, P., Callaway, R., Catford, J., Inderjit, Andonian, K., Luce, M., Aschehoug, E., and Montesinos, D. (2018). Inhibitory effects of *Eucalyptus globulus* on understory plant growth and species richness are greater in non-native regions. *Global Ecology and Biogeography*, 27, 68–76.

Berry, E., Sharma, S.K., Pandit, M.K., and Geeta, R. (2018). Evolutionary correlation between floral monosymmetry and corolla pigmentation patterns in *Rhododendron*. *Plant Systematics and Evolution*, 304, 219–230.

Berger, A., Brouquisse, R., Pathak, P.K., Hichri, I., Inderjit, Bhatia, S., Boscari, A., Igamberdiev, A.U., and Gupta, J.K. (2018). Pathways of nitric oxide metabolism and operation of phytohemoglobins in legume nodules: missing links and future directions. *Plant Cell & Environment*, 41, 2057–2068.

Bhatt, J.P., and Pandit, M.K. (2019). Local hunting practices and wildlife conservation in Arunachal Pradesh, India. *Animal Conservation*, doi:10.1111/acv.12492

Garg, A., Sharma, P., Beig G., and Ghosh C. (2018). Temporal Mount in Air Pollutants Allied with Religious Fiesta: Diwali, Festival of Lights, *Emerging Issues in Ecology and Environmental Science*, 12, 11–25.

Garg, S., and Biju, S.D. (2019). New microhylid frog genus from Peninsular India with Southeast Asian affinity suggests multiple Cenozoic biotic exchanges between India and Eurasia. *Scientific Reports*, 9(1906), 1–13.

Garg, S., Suyesh, R., Das, A., Jiang, J., Wijayathilaka, N., Amarasinghe, A.A.T., Alhadi, F., Vineeth, K.K., Aravind, N.A., Senevirathne, G., Meegaskumbura, M., and Biju, S.D. (2018). Systematic revision of *Microhyla* (Microhylidae) frogs of South Asia: a molecular, morphological, and acoustic assessment. *Vertebrate Zoology*, 69(1), 1–71.

Garg, S., Das, A., Kamei, R.G., and Biju, S.D. (2018). Delineating *Microhyla ornata* (Anura, Microhylidae): mitochondrial DNA barcodes resolve century-old taxonomic misidentification. *Mitochondrial DNA Part B*, 3(2), 856–861.

Garg, S., Senevirathne, G., Wijayathilaka, N., Phuge, S., Deuti, K., Manamendra-Arachchi, K., Meegaskumbura, M., and Biju, S.D. (2018). An integrative taxonomic review of the South Asian microhylid genus *Uperodon*. *Zootaxa*, 4384(1), 1–88.

Goyal, N., Esler, K., and Sharma, G.P. (2018). What drives performance potential of *Lantana camara* L. (sensu lato) in the invaded range? *Tropical Ecology*, 59(1): 57–68.

- Goyal, N. and Sharma, G.P. (2019). Unveiling cryptic ecological functions: prospects in plant invasions. *Tropical Ecology*, 60(1), 1–5.
- Goyal, N., and Sharma, G.P. (2019). It takes two to tango: variable architectural strategies boost invasive success of *Lantana camara* L. (sensu lato) in contrasting light environments. *Biological Invasions*, 21, 163–174.
- Gupta, H., Tiwari, C., and Diwakar, S. (2019). Butterfly diversity and effect of temperature and humidity gradients on butterfly assemblages in a sub-tropical urban landscape. *Tropical Ecology*, 60(1), 150–158.
- Inderjit, Pergl, J., van Kleunen, M., Hejda, M., Babu, C.R., Majumdar, S., Singh, P., Singh, S.P., Salamma, S., Rao, B.R.P., and Pyšek, P. (2018). Naturalized alien flora of the Indian states: biogeographic patterns, taxonomic structure and drivers of species richness. *Biological Invasions*, 20, 1625–1638.
- Jain, R., Sharma P., Ghosh, C., (2018). A sustainable way of waste management: A Green Nanotechnology Approach. *Asian Academic Research Journal of Multi-disciplinary*. 5(4), 1–9.
- Kothamasi, D, Wannijn, J, van Hees, M., Nauts, R., von Gompel, A., Vanhoudt, N., Vandenhove, H. (2019). Exposure to ionizing radiation affects the growth of ectomycorrhizal fungi and induces increased melanin production and increased capacities of reactive oxygen species scavenging enzymes. *Journal of Environmental Radioactivity*, 197, 16 – 22.
- Mahony, S., Kamei, R.G., Teeling, E.C., and Biju, S.D. (2018). Cryptic diversity within the Megophrys major species group (Amphibia: Megophryidae) of the Asian Horned Frogs: Phylogenetic perspectives and a taxonomic revision of South Asian taxa, with descriptions of four new species. *Zootaxa*, 4523(1), 001–096.
- 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, 76 – 184.
- Manish, K., and Pandit, M.K. (2018). Phylogenetic diversity, structure and diversification patterns of endemic plants along an elevational gradient in the Eastern Himalaya. *Plant Ecology & Diversity*, 11, 501–513.
- Manish, K., and Pandit, M.K. (2018). Geo-physical upheavals and evolutionary diversification of plant species in the Himalaya. *Peer J*, 6, p.e5919.
- Pardha-Saradhi, P., Shabnam, N., Sharmila, P., Ganguli, A.K., and Kim, H. (2018). Differential sensitivity of light-harnessing photosynthetic events in wheat and sunflower to exogenously applied ionic and nanoparticulate silver. *Chemosphere* 194: 340 – 351.
- Rana, K., Goyal, N., and Sharma, G.P. (2018). Staging stewards of agro-ecosystems in the ecosystem services framework. *Ecosystem Services*, 33, 89–101.
- Sanchez, E., Biju, S.D., Islam, M.M., Hasan, M., Ohler, A., Vences, M., and Kurabayashi, A. (2018). Phylogeny and classification of Fejervaryan frogs (Anura: Dicroglossidae). *Salamandra*, 54, 109–116.
- Saxena, P., and Ghosh, C. (2018). Establishing correlation between abiotic stress and Isoprene emission of selected plant species. *Emerging Issues in Ecology and Environmental Science*, 12, 11–25.
- Sharmaand, G., and Ghosh, C. (2018). Microplastics: An Unsafe Pathway from Aquatic Environment to Health - A Review, *Emerging Issues in Ecology and Environmental Science*, 12, 11–25.
- Singh, S.P., Inderjit, Singh, J.S., Majumdar, S., Moyano, J., Nuñez, M.A., and Richardson, D. (2018). Insights on the persistence of pines (Pinus species) in the late Cretaceous and their increasing dominance in the Anthropocene. *Ecology and Evolution*, 8:10345–10359.
- Sunny, A., Diwakar, S. and Sharma, G.P. (2018). Interactions between non-native plants and native insects: research gaps. *Current Science*, 114 (4), 728.

Tiwari, C., and Diwakar, S. (2018). Singers in the grass: call description of conehead katydids (family: Tettigoniidae) and observations on avoidance of acoustic overlap. *Bioacoustics*, 1–17.

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, L.A., Barcelona, J.F., Breckle, S.W., Brundu, G., Cabezas, F.J., Cárdenas, D., Cárdenas-Toro, J., Castaño, N., Chacón, E., Chatelain, C., Conn, B., de S. Dechoum, M., Dufour-Dror, J.M., Ebel, AL., Figueiredo, E., Fragman-Sapir, O., Fuentes, N., Groom, Q.J., Henderson, L., Inderjit, Krestov, P., Kupriyanov, A., Masciadri, S., Meerman, J., Morozova, O., Nickrent, D., Nogan, N., Nowak, A., Patzelt, A., Pelsler, P.B., Shu, W.S., Thomas, J., Uludag, A., Velayos, M., Verkhosina, A., Villaseñor, J.L., Weber E, Wieringa, J., Yazlık, A., Zeddarn, A., Zykova, E., and Winter, M. (2019). The Global Naturalized Alien Flora (GloNAF) database. *Ecology*, 100(1) e2542.

## **Journals**

Academic editor/Associate Editor – three teachers in ten international journals

## **Research Projects**

RSET, Biodiversity Studies of Rapum HEP, Rego HEP in Arunachal Pradesh and Data Compilation for terrestrial and aquatic biodiversity of Beas Basin in Himachal Pradesh; 2017-185. Prof. M.K. Pandit, 50 lakh

RSET, Biodiversity Studies as part of EIA Studies for two Pump Storage schemes, viz. Pinnapuram, Andhra Pradesh and Saundatti, Karnataka; 2018-19, Prof. M.K. Pandit, Rs. 4 lakh

RSET, Biodiversity Studies of Gori Ganga IIIA HEP in Uttarakhand, 2018-19, Prof. M.K. Pandit Rs. 2.70 lakh

WAPCO, Ecological Study for Odisha Thermal Power Plant Project at Kamakhyanagar, Odisha, 2018-19, Prof. M.K. Pandit, Rs. 4.90 lakh

RSET, Biodiversity Study of Dikhu HEP, Nagaland, 2018-19, Prof. M.K. Pandit, Rs. 3 lakh

CEPF, USA., Western Ghats Network of Protected Areas for Threatened Amphibians (WNPATA); 2009–present, Prof. S. D. Biju, 1,20,000 USD.

Ministry of Earth Sciences (MOES), Government of India (GOI), Monitoring Indoor Air Pollution (IAP) in Delhi University Area and assessing its Human Health Impacts; 2016-2019, Dr. Chirashree Ghosh, Rs. 86,70,500

Ministry of Health and Family Affairs, Department of Health Research: Spatio-Temporal Epidemiology of Chronic Respiratory Illnesses in Urban Indian Settlements (STEPCRUISE); 2016-2019, Dr. Chirashree Ghosh, Rs. 30,63,720

Ministry of Environment, Forest and Climate change (MoEF), Government of India (GOI), Impact of Environmental Bioaerosol Pollution on Human health: A case control Study for Exacerbation of COPD in North Indian Population, 2015-2018, Dr. Chirashree Ghosh, Rs. 37,72,216

DU-DST PURSE Phase 2, Impact of Environmental Bioaerosol Pollution on Human health; 2014-2015, Dr. Chirashree Ghosh, Rs. ~10.4 Lakhs

M/s Godavari Borefineries Ltd., Sakarwadi, Maharashtra; Bioremediation of contaminated soil and surface waterbodies and ground water (aquifer) of the desludged and refilled lagoons of Distillery Spent Wash (waste waters released from distilleries) of M/s Godavari Biorefineries Ltd. at Sakarwadi, Maharashtra; 2017 till date, Dr. David Kothamasi: Rs. ~17 Lakhs.

DU-DST Purse Grant; Insects herbivores.....an evolutionary trap, 2015 to till date Dr. Gyan Prakash Sharma, Rs. 13 Lakh

DU-DST Purse Grant: Insect herbivores .....an evolutionary trap; 2015 to till date, Dr. Swati Diwakar, Rs. 13 Lakh

### **Seminars Organized**

Brainstorming meet: Rejuvenating Indian Palaeontology and Establishing a National Earth Museum; 10–11 September 2018; Indian National Science Academy & University of Delhi.

### **Conferences Organized**

National Workshop on Emerging Pollution Challenges on Earth Ecosystem- SAFAR, India's Novel Initiative, March 26th, 2019, organized by Environmental Pollution Laboratory; sponsored by Ministry of Earth Sciences, Government of India.

### **Seminars/Conference presentations**

Balyan, P., Ghosh C., Sharma A.K., Awasthi, R. and Banerjee, B.D. Impact of Environmental Bio-Aerosol Pollution on Human Health: A "Follow Up Study" on Exacerbation of COPD in Conference of Indian Aerosol Science and Technology Association (IASTA) on Aerosol Impacts: Human Health to Climate Change, IIT, New Delhi November 26 -28, 2018.

Biju, S.D., A Modern Indian Museum: Scope and Relevance for Preservation of Biological Collections and Research, Brainstorming meet: Rejuvenating Indian Palaeontology and Establishing a National Earth Museum, Indian National Science Academy & University of Delhi, New Delhi. September 10, 2018.

Biju, S.D., Keynote speaker, Biodiversity conservation and ecological sustainability, Fourth National Symposium on Environment: Green Technology for Environmental Sustainability, Department of Zoology, Deshbandhu College, University of Delhi, New Delhi. September 25, 2018.

Garg, A., and Ghosh, C. Heavy Metal Enrichment on Indoor Fine Particulate Matter in Different Socio-Economic Zones of Delhi, Conference of Indian Aerosol Science and Technology Association (IASTA) on Aerosol Impacts: Human Health to Climate Change, IIT, New Delhi. November 26 - 28, 2018.

Garg, A., Saha, A.R., and Ghosh, C. Role of Green Belt in Reducing Particulate Matter inside an Institutional Area. National Conference on "Urban Environment Sustainability" organized by Zoology Department, Kalindi College, University of Delhi & Mahatma Gandhi Institute of Combating Climate Change (MGICCC), Govt. of NCT, New Delhi. February 7-8, 2019.

Goyal, N., and Sharma, G.P. (2018). Stage-based trait identification by placing model systems on the unified framework for biological invasions. 10th International Conference on Biological Invasions: New Directions in Invasion Biology, Neobiota, DunLaoghaire, Dublin, Ireland. September 3 – 7, 2018.

Jeena, M., Balyan, P., Yadav A. K., Das, S., and Ghosh, C. Air-Borne Bioaerosols & COPD: A Case-Control Study. National conference on Chemistry for Human Health and Environment (CHHE) Organized by Green Chemistry Network Centre (GCNC), University of Delhi & Royal Society of Chemistry (RSC) London North India Section in collaboration with National Environmental Science Academy (NESA) New Delhi, December 15 - 16, 2018.

Kumar, S., and Ghosh, C., Mercury pollution in surface and subsurface water at upper stretch of river Yamuna in Delhi. International conference on Environmental and Ecological Sustainability: Engaging the Stakeholders, Organized by SOITS, IGNOU, New Delhi. October 4 - 5, 2018.

Kumar, S., Tiwari, C., and Diwakar, S. Finicky Phaneropterine: Observation on calling site fidelity in a bush cricket, Poster Presentation in 13th Western Pacific Acoustics Conference, New Delhi; November 11-15, 2018.

Pardha-Saradhi, P. presented a review on "CWA Rice capabilities and its advantages for Central and West Asian countries" during Opening Ceremony of 6<sup>th</sup> meeting of the Technical Management Committee (TMC) at Baku and Lankaran, Azerbaijan. October 8-10, 2018.

Pardha-Saradhi, P. delivered a presentation on “Managing sustainability of rice agro-ecosystem” during Technical Session of 6<sup>th</sup> meeting of the Technical Management Committee (TMC) at Baku and Lankaran, Azerbaijan. October 8-10, 2018.

Pardha-Saradhi, P. chaired a session on “Indoor Air Pollution” at International Conference on "Challenge of Climate Change and Air Pollution - Impact on Health and Economy”, Maulana Azad Medical College, New Delhi. December 14-15, 2018.

Sharma, P., and Ghosh, C. Role of urban vegetation in attenuating particulate pollution. International Skynet Workshop organized by IMD, New Delhi. February 13 -15, 2019.

Sharma, P., Jain, R., and Ghosh, C. (2018). Application of green nano particle in dye degradation. International conference on Environmental and Ecological Sustainability: Engaging the Stakeholders, organized by SOITS, IGNOU, New Delhi October 4 -5, 2018.

Sharma, P., and Ghosh, C., Potential of urban vegetation in attenuating particulate pollution. Conference of Indian Aerosol Science and Technology Association (IASTA) on Aerosol Impacts: Human Health to Climate Change, IIT, New Delhi November 26 - 28, 2018.

Tomar, M., and Diwakar, S. An acoustic inventory: estimating the call diversity from different biogeographic regions (Infraorder: Gryllidea), Oral Presentation in 13th Western Pacific Acoustics Conference, New Delhi; November 11-15, 2018.

Singh., I. was invited to participate in workshops at Stellenbosch University in Stellenbosch, South Africa. The workshop focused on the establishment of a research network for invasion science for BRICS countries (Brazil, Russia, India, China and South Africa). November 6– 9, 2018.

Singh., I delivered an invited lecture on “Causes of biological invasions” at the Natural Resources, University of Alberta, Canada. January 11, 2018.

Yadav A.K., Balyan, P., and Ghosh C. A Review on Indoor Air Pollution and Associated Health Impact with Special reference to building design. International conference on Environmental and Ecological Sustainability: Engaging the Stakeholders, Organized by School of Interdisciplinary and Trans-disciplinary studies (SOITS), IGNOU, New Delhi, October 4 - 5, 2018.

Yadav, A.K., Balyan, P., and Ghosh, C. Estimation of Indoor bioaerosols and Occurrence of SBS Symptoms within Office Premises in Delhi, Asian Conference on Indoor Environmental Quality, 1<sup>st</sup> Edition Habitable Built Environment- Experience the Unseen, New Delhi. February 1 - 2, 2019.

Yamal, G., Lal, D., and Pardha-Saradhi, P. “An ideal avenue tree to curb air pollution” Paper presented at International Conference on “Challenge of Climate Change and Air Pollution - Impact on Health and Economy”, Maulana Azad Medical College New Delhi. December 14-15, 2018.

### **Other Inter-Institutional Collaboration**

Prof. S. D. Biju has inter-lab scientific collaboration with the following institutions:

Prof. Madhava Meegaskumbura, Department of Molecular Biology and Biotechnology, University of Peradeniya, Sri Lanka (Two scientific publications, April 2018–March 2019)

Dr. Abhijit Das, Wildlife Institute of India, Dehradun, India (Two scientific publications, April 2018–March 2019)

Prof. Jianping Jiang, Chengdu Institute of Biology, Chinese Academy of Sciences, Chengdu, China (One scientific publication, April 2018–March 2019)

Prof. E. C. Teeling, School of Biology and Environmental Science, University College Dublin, Ireland (One scientific publication, April 2018–March 2019)



Dr. Amir Hamidy, Museum Zoologicum Bogoriense, Indonesian Institute of Sciences (LIPI), Java, Indonesia

Prof. Inderjit Singh is collaborating with scientists at the University of Alberta and University of Toronto, Canada.

Dr. Chirashree Ghosh has inter-lab scientific collaborations with University College of Medical Sciences (UCMS), New Delhi, IITM, Pune and IMD.

### **Extension and Outreach Activities**

Biju, S.D., Resource Person/Invited Speaker (2017), Understanding life, current state of species documentation and biodiversity crisis. Department of Botany, University of Delhi, July 17, 2018.

Biju, S.D. Invited Talk (2018), Amphibians: the pioneers of vertebrate life on land, Department of Life Science, Hans Raj College, University of Delhi, September 20, 2018.

Biju, S.D. Invited Talk and Panel Discussion (2019), Halting human-induced amphibian extinction, Wildlife Society, Hindu College, University of Delhi, January 25, 2019.

Ghosh, C. (2018), Dust Capturing capacity of the Existing Green Cover and Lessons for the Future: A Study for IP College for Women, April 2018 - till date.

Ghosh, C. (2018), Workshop & practical session, Hindu College, October 11, 2018

Ghosh, C. (2019), Practical Session on air and water pollution monitoring for students of St. Stephens College, February 21st and 28<sup>th</sup>, 2019.

Ghosh, C. (2018), Review of book Proposal- Electronic Waste Management in India- Challenges & Opportunities, Routledge, India, Taylor & Francis group.

Ghosh, C.(2019), Expert committee and block preparation team member, IGNOU study material unit 4 (pg 39-48) titled- Introduction to Environmental Health, ISBN Number: 978-93-88498-80-7

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

Ph.D. - 07

### **Faculty Strength:**

Permanent 11

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## **GEOLOGY**

### **Major Activities and Achievements**

The Department of Geology has continued its commitment to imparting training to students through classroom teaching, laboratory work and field-based practical training to make them highly skilled professionals in the field of Geosciences. The research work carried out by the faculty members has received increased attention and recognition in the field of petrology, hydrogeology, sedimentology, paleobiology and paleoclimate and the department was awarded CAS-III grant by the UGC for the next five years. In addition, many individual faculty members have been sanctioned several major theme-based research projects by premier funding agencies viz., SERB, MOES, CSIR etc. Prof. Prasad and his group carried out research on dinosaur eggshells from the Upper Cretaceous strata of the Cauvery Basin and extensive dinosaur nesting sites of western India. Prof. Chattopadhyay worked on GIS-based digital structural mapping of deformed ore deposits and shear zone structures. Prof. Chakraborty documented sedimentation pattern in Paleoproterozoic rifts and redox conditions during Mesoproterozoic. Prof. Pant reported possible meteorite fragments in marine sediments of Antarctica.

## Honours/Distinctions

Prof. C.S. Dubey was nominated as Ambassador for Open Education Resources (OER), International Council of Distance Education, Norway.

Prof. N.C. Pant was nominated as the Deputy Chief Officer, Geosciences Group of the Scientific Committee on Antarctic Research (SCAR) (2017-2020) and Visitor's Nominee in Nagaland University for three years (2019-22)

Prof. P. Srivastava was elected as Fellow, The Clay Mineral Society of India, New Delhi, 2018.

## Publications

Ali S, Shekhar, S., Bhattacharya, P., Verma, G., Gurav, T., Chandrashekhar, A.K. (2018). Elevated fluoride in groundwater of Siwani Block, Western Haryana, India: A potential concern for sustainable water supplies for drinking and irrigation. *Groundwater for Sustainable Development*. 7: 410-420.

Dhiman, H., Prasad, G.V.R., Goswami, A. (2018). Parataxonomy and palaeobiogeographic significance of dinosaur eggshell fragments from the Upper Cretaceous strata of the Cauvery Basin, South India: *Historical Biology*, DOI: 10.1080/08912963.2018.1450408

Dingle, E.H., Sinclair, H.D., Attal, M., Rodés, A., and Singh, V. (2018). Temporal variability in detrital <sup>10</sup>Be concentrations in a large Himalayan catchment. *Earth Surf. Dynam.*, 6, 611–635.

Gogoi, B and Saikia, A. (2019) The Genesis of Emulsion Texture Owing to Magma Mixing in the Ghansura Felsic Dome of the Chotanagpur Granite Gneiss Complex of Eastern India. *The Canadian Mineralogist* 57 (3), pp 311–338.

Gogoi, B., and Saikia, A. (2018). Role of viscous folding in magma mixing. *Chemical Geology*, 501, pp. 26-34. DOI:501. 10.1016/j.chemgeo.2018.09.035.

Gogoi, B. and Saikia, A. (2018). Synneusis: does its preservation imply magma mixing? *MINERALOGIA*, 49 (1-4), pp 99-117. DOI: 10.2478/mipo-2018-0009.

Ghosh, N., Hatui, K, Chattopadhyay, A. (2019). Propagation and coalescence of en-echelon cracks under a far-field tensile stress regime: an experimental study. *Journal of Earth System Science* 128:23.

Hameed, A., Raja, P., Ali, M., Upreti, N., Kumar, N., Tripathi, J.K., Srivastava, P. (2018). Micromorphology, Clay mineralogy, and Geochemistry of calcic-soils from Western Thar Desert: Implications for origin of palygorskite and southwestern monsoonal fluctuations over the last 30 ka. *Catena* 163, 378-398.

Haproff, P., Zuza, A.V., Yin, A., Harrison, T.M., Mapping, 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* 15: 1-26.

Jain A, and Shekhar, S., (2019). Estimation of regional groundwater discharge and base flow contribution in northern stretch of the Yamuna River system of Delhi. *Current Science* 116(4), 660-664.

Joshi, S.K., Rai, S.P., Sinha, R., Gupta, S., Densmore, A.L., Rawat, Y.S., Shekhar, S., (2018) Tracing groundwater recharge sources in the northwestern Indian alluvial aquifer using water isotopes ( $\delta^{18}\text{O}$ ,  $\delta^2\text{H}$  and  $3\text{H}$ ). *Journal of Hydrology* 559:835-47.

Kumar A, Shekhar Shashank , Sarkar A, & Sharma A K. (2019). A process-based insight to the recent disappearance of streams in the central part of Tarai region, Uttarakhand, India. *Environmental monitoring and assessment*, 191(2), 66.

Kumar, A., and Shrivastava, J.P. (2019) Thermodynamic Modeling and Experimental Validation of CO<sub>2</sub> Mineral Sequestration in Mandla Basalt of the Eastern Deccan Volcanic Province, India. *Journal of the Geological Society of India* 93: 269-277.

Meenakshi, Kumar, P., Shrivastava, J.P., Chandra, R., Chopra, S., Roonwal, G.S., and Sharma, R. (2018) High resolution <sup>14</sup>C AMS ages (~50 ka) of organic matter associated with the loess-palaeosol Holocene-Late Pleistocene (8–130 ka) sediments of Dilpur Formation, Karewa Group, Kashmir, India. *Quaternary Geochronology* 47: 170-179.

Mukherjee, I., Chattopadhyay, A., Deb M. (2018) Deformation of pyrite at varying metamorphic grades in sediment-hosted base metal sulphide deposits of Rajasthan, India. In: *Mandal, M.E.A. (Ed) Precambrian Crustal Evolution of India: Geological and Geodynamic Perspective*. Springer (SES series), pp. 221-237.

Pant, N.C., Francisco J. Jimenez-Espejo, F.J., Cook, C. P., Biswas, P., Mckay, R., Marchesi, C., Ito, M., Upadhyay, D., Kuroda, J., Shimzu, K., Senda, R., Flierd, T., V. D., Takano, Y., Suzuki, K., Escutia, C., Shrivastava, P.K., (2018). Suspected meteorite fragments in marine sediments from east Antarctica. *Antarctic Science* 30:307-321.

Pandey, M., Pandit, D., Arora, D., Rao, N.V.C., Pant, N. C. (2019). Analytical Protocol for U-Th-Pb Chemical Dating of Monazite using CAMECA SXFive EPMA Installed at the Mantle Petrology Laboratory, Department of Geology, Banaras Hindu University. *Journal of the Geological Society of India* 93 (1): 46-50.

Sarkar, A., Chattopadhyay, A., Singh, T. (2019) Roundness of survivor clasts as a discriminator for melting and crushing origin of fault rocks: a reappraisal. *Journal of Earth System Science*, 128:51.

Sarkar, A., Shekhar, S. (2018) Iron contamination in the waters of upper Yamuna basin. *Groundwater for Sustainable Development* 7: 421-429.

Singh, A.K., Chakraborty, P.P., Sarkar, S. (2018). Redox structure of Vindhyan hydrosphere: clues from total organic carbon, transition metal (Mo, Cr) concentrations and stable isotope ( $\delta^{13}\text{C}$ ) chemistry. *Current Science* 115(7): 1334-1340.

Spinola, D.N., Portres, R.C., Srivastava, P. Torrent, J., Barfon, V., Kühn, P. (2018). Diagenetic reddening of Early Eocene paleosols on King George Island, Antarctica. *Geoderma* 315: 149-159.

Vedanti, N., Malkoti, A., Pandey, O.P., Shrivastava, J.P., (2018) Ultrasonic P- and S-Wave Attenuation and Petrophysical Properties of Deccan Flood Basalts, India, as Revealed by Borehole Studies. *Pure and Applied Geophysics* 175(8): 2905-2930.

Usham, A.L., Dubey, C.S., Shukla, D.P., Mishra, B.K., Bhartiya, G.P. (2018), Sources of Fluoride Contamination in Singrauli with Special Reference to Rihand Reservoir and its Surrounding, *Journal Geological Society of India* 91 (4): 441-448.

#### Edited Books

Pant, N.C., Ravindra, R., Srivastava, D., Thompson, L.G. (Eds.) (2018). *The Himalayan Cryosphere: Past and Present*, Geological Society, London, Special Publications, V 462, pp.205.

#### Research Projects

DST-SERB, GIS based digital mapping of natural deformational structures: Development of methodology and application to structurally controlled ore deposits' April 2015-September 2018 (Completed in September 2018), Prof. A. Chattopadhyay, Rs. 37.06 Lakhs.

DST-SERB, Evolution of Vertebrate Life during the northward drift of India, 2015-2010, Prof. GVR Prasad; Rs.1,57,60,000/-.

MOES, Geochemical flow stratigraphy, age and duration of Deccan volcano sedimentary succession from Koyna Drill-core site, 2016-2019, Prof. J. P. Shrivastava, Rs. 58,43,600/-

CSIR, 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 Meghalaya: Palaeoenvironmental implications and K/Pg transition, 2016-2020, Prof. J. P. Shrivastava; Rs. 20,00,000/-.

IUAC, Isotopic compositions,  $^{10}\text{Be}$  and  $^{14}\text{C}$  dating of loess-palaeosol from Dilpur formation of Kashmir: Palaeoclimatic reconstruction, 2016-2019, Prof. J. P. Shrivastava; Rs. 5,79,000.

MOES, Ground water impact assessment study for Yamuna Bank Depot. M/S Delhi Metro Rail Corporation Ltd. (A Joint venture of Govt. of India & Govt. of Delhi), 2018, Dr. S. Shekhar; Rs. 4.8 Lakhs.

MOES, Development of a predictive geomorphic model as a tool for sustainable river management, 2018-2021, Dr. S. Shekhar, Rs. 25,36,800.

MOES, Paleopedological, sedimentological and thermochronological records of climate change and tectonics during the evolution of Siwalik successions, Punjab re-entrant, 2018-2021, Prof. J. P. Shrivastava, Rs. 34,00,000.

### **Seminars Organized**

5<sup>th</sup> Conference and Workshop on Rock Deformation and Structure (RDS-V), 4<sup>th</sup> to 6<sup>th</sup> October 2018 (Prof. A. C. Chattopadhyay, Convenor).

Workshop on Advances in Stratigraphy and Geochronology of Indian sedimentary basins: Road ahead. 26.02.2019 (Prof. P.P. Chakraborty, Convener)

### **Conferences Organized**

Conference on "Rejuvenating Indian Palaeontology and Establishing of a National Earth Museum, Sep 10-11, 2018, Sponsored by the Office of the Principal Scientific Adviser to the Govt. of India (Prof. G. V. R. Prasad- Convener)

### **Seminar/Conference Presentations (National / International)**

Basuroy, D., Tandon, S.K., and Singh, V: Drainage and Slope Relationships of the Punjab Haryana Alluvial Plains, North West Himalayas. EGU General Assembly Conference Abstracts, April 8-13, 2018, Vienna, Austria.

Devrani, R, Mudd, Singh, S.M, V, and Ramanathan, A.L. Predicting sensitive reaches during an extreme event in the headwaters of the Ganga River Basin, NW Himalaya. EGU General Assembly Conference Abstracts, April 8-13, 2018, Vienna, Austria.

Dingle, E., Sinclair, H., Attal, M., Rodes, A. and Singh, V. Temporal variability in detrital CRN concentrations in large Himalayan catchments. EGU General Assembly Conference Abstracts, April 8-13, 2018, Vienna, Austria.

Divyadarshini, A. and Singh, V. Exploring Structural Model of the Main Frontal Thrust along the Central Himalaya, through Geomorphic Analyses. EGU General Assembly Conference Abstracts, April 8-13, 2018, Vienna, Austria.

Dubey, C.S.

Guest of Honor, Invited Speaker, International Conference and Workshop on Nanostructured ceramics and other Nanomaterials, Centre for Potential for Excellence, Mysore University, Mysuru, March 18 – 21, 2019.

Guest of Honor, International Conference and Exhibition on "Energy and Environment: Challenges and Opportunities" (ENCO-2019), Vigyan Bhawan, New Delhi, INDIA February 20 – 22, 2019,

Pant, N. C. NCP: XXXV SCAR Open Science Conference-2018, “Inferring a rift-thinned lithosphere based on ICECAP-2 observations in Princess Elizabeth Land, Antarctica”, Davos, Switzerland. June 19-23, 2018.

Parida, S, Singh, V, and Tandon, S.K. Evolution of Gravel Size along the Rivers in an Intermontane Valley- -A case study from Dehra Dun, NW Sub-Himalaya. EGU General Assembly Conference Abstracts, Vienna, Austria, .April 8-13, 2018,

Prasad, G.V.R. The Fossil Week: 5th International Palaeontological Congress, Paris, France. July 9-13, 2018,

Prasad, G.V.R.: 6th International Symposium of IGCP Project 608, KhonKaen, Thailand, November 12-17, 2018,

Prasad. G.V.R. Rejuvenating Indian Palaeontology and Establishing of a National Earth Museum, New Delhi, Sep 10-11, 2018.

Sarkar, A., and Shekhar S. Appraisal of Sediment-Groundwater interaction using PHREEQC based simulation in parts of active flood plains of Upper Yamuna Basin,India. GOLDSCMIDT, Boston, USA, .August 12-17, 2018,

Shrivastava. J. P. Delivered Presidential address on “Geology, Environmental Sustainability and Climate Change” in the 106<sup>th</sup> Indian Science Congress, Jalandhar, Jan 3 - 7, 2019.

Singh, V.: Investigating the Piedmont fault to the south of Himalayan front-evidences of its existence and absence along the Himalaya. EGU General Assembly Conference Abstracts, Vienna, Austria, .April 8-13, 2018,

#### **Other Inter-Institutional Collaboration**

Prof. G.V.R. Prasad has collaboration with Dr. Emmanuel Gheerbrant of Museum National D’Histoire, Naturelle, Paris (France) on a research project dealing with Functional Evolution in Late Palaeocene mammals of Morocco, Northwest Africa.

Prof. N. C. Pant participated in a meeting at Department of State, Washington DC to discuss the outcome of a British Council funded project, ICECAP (International Collaborative Exploration of Central East Antarctica through Airborne geophysical Profiling) during April 2018. This was a UK-USA-China-India collaboration.

Prof. P. P. Chakraborty has research collaborations with IIT, Kharagpur; Prof. A. Sarkar, Jadavpur University, Kolkata; Prof. S. Banerjee. Pondicherry University; S. Balakrishnan, IIT, Mumbai; Dr. K. Das, National Science Museum; Hyakunin-cho, Shinjuku-ku, Tokyo, Japan; Dr. Fumito Shiraiishi Hiroshima University, Japan; (Sponsored by DST, IIT, JSPS).

#### **Placement Details (Number and percentage of students placed)**

One: CSIR CIMFR, Dhanbad,

One: Assistant Professor, Govt. Degree College, Rajouri, J & K

One: Assistant Professor in Rajasthan University, Jaipur, Rajasthan

#### **Extension and Outreach Activities**

Prof. G. V. R. Prasad: Mentored two students under Science Academics’ Summer Research Fellowship.

Riya Bidaye of St. Xavier’s College Mumbai.

Pranay Kumar Tirpude, Ferguson College, Pune

Prof. A. Chattopadhyay: (i) National mentor for IASc-INSA-NASI summer research fellowship (ii) Coordinator of Theme 27: Rock Deformation and Rheology for upcoming IGC 2020.

Students of many colleges visited the Departmental Museum as a part of study visit .

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

Ph.D. - 6

M.Phil. - 6

#### **Faculty Strength**

**Total:** 13

Professor: 8

Associate Professor: 1

Assistant Professor: 4

#### **Other Significant Information**

Prof. G.V.R. Prasad

Nominated as Chairman of INSPIRE Fellowship Standing Committee (2018-2021)

Nominated as Member, CSIR's Earth & Environmental Sciences and Sub-Committee of Earth Sciences Committee on Disaster Preparedness (2019-2022)

Prof. N.C. Pant: Organized Annual General Meeting of the DuAL Geology- a registered body of the alumni of Geology from Delhi University.

Prof. G.V.R. Prasad: Nominated as Council Member of the Indian National Science Academy, New Delhi.

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### **PHYSICS AND ASTROPHYSICS**

#### **Major activities and Achievements**

The Department of Physics and Astrophysics maintained its position as the topmost university physics department in the country in QS rankings. It sustained its high-quality research as evidenced by more than 350 research publications by faculty and students in international refereed journals during the year. With nearly 520 M.Sc. students and over 180 Ph.D. students along with the current strength of about 40 faculty members, it is one of the largest physics departments in the country. Its faculty received several national and international grants and participated in several collaborative projects globally. The department hosted eminent researchers from all over the world, who gave inspiring lectures to the students. The department conducted an extensive exercise to revise its M.Sc. and B.Sc. curricula providing a wide choice of electives including inter-disciplinary subjects to the students. An exclusive departmental portal, displaying regular updates on academic and other activities, successfully went online during the year.

#### **Honours and Distinctions**

Prof. Avinash Khare, Appointed Vice-Chancellor of Central University of Sikkim

Prof. Brajesh C. Choudhary

Spokesperson, India-Fermilab Neutrino Collaboration

Spokesperson, India-CMS Collaboration

Prof. H.P. Singh, Member of Indo-Japan Science Council, appointed by DST India.

Prof. Sanjay Jain, External Professor, Santa Fe Institute, USA

Prof. Samit K. Mandal

Member of NUSTAR Council (with voting right), FAIR-NUSTAR collaboration, GSI, Darmstadt, Germany

Joint Secretary: Indian Physical Association

Member, Planning Committee of SERB School on Nuclear Physics.

Prof. Vinay Gupta, Member, Think Tank, "Digital India-from Education to Jobs"

### **Publication**

Abbas, Das & Patra. (2018). Loop induced  $H_{\pm} \rightarrow w_{\pm}Z$  decays in the aligned two-Higgs-doublet model LOOP INDUCED  $H_{\pm} \rightarrow w_{\pm}Z$  DECAYS in...GAUHAR ABBAS, DIGANTA DAS, and MONALISA PATRA, *Physical Review D*, 98, 11, 115013.

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Ameer et al. (2018), Study of half-metallicity in  $\text{BiMn}_x\text{Fe}_{1-x}\text{O}_3$ , *AIP Conference Proceedings*, 1953, 110018.

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## **Journals**

### **Number of Faculty serving as Editors/Editorial board members**

Editor/ Guest Editor- Two teachers serving in three journals

Member Editorial Board – Three teachers serving in four journals

### **Research Projects**

DST, 2019-2024, Indian Institutions-Fermilab Collaborate in Neutrino Physics, Rs. 280.71 Lakhs

SERB-DST, 2019-2022, Multi-nucleon transfer reaction dynamics and its effect on fusion near the Coulomb barrier for medium mass nuclei, Rs. 41.745 lakhs

SERB-DST, 2019-2022, To Design and Develop a novel spin controlled chiral quantum dot DNA bio-sensor, Rs. 17.17 lakhs

IMPRINT2, MHRD-DST+Industry, 2019-2022, Development of spin dependent smart electrode for DNA bio-sensor, Rs. 35.45 lakhs.

Directorate of Extramural Research & Intellectual Property Rights (ER&IPR), 2019-2022, Fabrication of Lamb Wave Devices on SiO<sub>2</sub>/Si, Rs. 428.032 lakhs

SERB-DST, 2019-2022, Search for Quadrupole and Octupole collectivity in nuclei of mass A~150 region, Rs. 23.136 Lakhs

SERB-DST, 2019-2022, Exploring molecular growth of hydrocarbons in slow (energy 1 keV or less) ion-molecule collisions, Rs. 33.11 Lakhs

IUAC (UGC), 2015-2019, Investigation of few-nucleons transfer and fusion reaction mechanism in medium mass nuclei at and near the Coulomb barrier, Rs. 6.03 Lakhs

DST, 2013-2019, R & D Efforts by University Groups for INO project, Rs. 177.8 Lakhs

DST, 014-2019, Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization, Rs. 999 Lakhs

DST, 2017-2020, Simulation studies and tests to develop radiation tolerant silicon detectors for High luminosity colliders, Rs. 10.8 Lakhs

DRDO ARMREB, 2015-2018, Flux growth of Pb (Mg<sub>1/3</sub>Nb<sub>2/3</sub>) O<sub>3</sub>-PbTiO<sub>3</sub> (PMNT) single crystals for piezoelectric and pyroelectric applications, Rs. 85 Lakhs

SERB-DST, 2016-2019, Fabrication and characterization of piezoelectric nanocrystals-organic hybrid sheet for energy harvesting and pressure sensor, Rs. 72 Lakhs

SSPL, DRDO, 2017-2019, Investigation of Thermoelectric (TE) Properties of Calcium Cobalt Oxide (Ca<sub>3</sub>Co<sub>4</sub>O<sub>9</sub>) and Graphene Derivatives (as nano-inclusions) for TE Generator Applications, Rs. 9.83 Lakhs

SERB-DST, 2017-2020, Functional Domains and Site Correlation Networks in Evolving Protein Families, Rs. 23.84 Lakhs

SERB-DST, 2017-2019, Tailoring of magnetic and other functional properties of thin film nanostructures using low energy ion beams, Rs. 60 Lakhs

DST (Indo-US joint network), 2018-2022, Theoretical Analysis of Variable Star Data in the era of Large Surveys, Rs. 45 Lakhs

DRDO, 2018-2019, Optimization of Tix film and patterning of the polymer (PI-2610) as sacrificial layer for pixel fabrication, Rs. 22.19 Lakhs

DRDO, 2017-2019, Feasibility study for fabrication of Air bridges by gold electroplating (Vinay Gupta), Rs. 9.42 Lakhs

CEFIPRA (Indo-French), 2018-2021, Pre-evolutionary processes in autocatalytic RNA networks, Rs. 17.73 Lakhs

### **Patents Filed/Granted**

Application No. 201911006783, A novel highly sensitive and reliable LRSRP biosensor for detecting uric acid and fabrication.

Application No. 201811006329, Electric field assisted low power consuming conducto-metric gas sensor, Vinay Gupta, Monika Tomar, Anjali Sharma, Avneet Singh.

### **Seminars Organized**

**Total number of seminars: 24**

Prof. Anupam Mazumdar, Van Swinderen Institute, University of Groningen, The Netherlands, Title: New class of Gravity: Conformal in UV, Newtonian in IR; August 20, 2018.

Prof. Pawel Moskal Jagiellonian University, Krakow, Poland, Title: Tests of discrete symmetries in positronium decays with the J-PET detector; December 13, 2018.

Prof. Alakabha Datta, University of Mississippi, Oxford, USA and University of Hawaii, Honolulu, USA and University of California, Irvine, USA, Title: B Flavor Anomalies; July 9, 2019

Prof. Jonathan P. Bird, SUNY, Buffalo, USA, Title: Ultrathin Conductors for Nanoscale Electronics; January 10, 2019.

Prof. Kaoru Hagiwara, KEK, Japan (High Energy Accelerator Research Organization), Title: Fun with Single Top & Higgs production at the LHC; March 28, 2019

Prof. Luiz A. Ferreira, Universidade de Sao Paulo, Brazil, Title: Hidden Symmetries; December 14, 2018.

Prof. Maxwell Chertok, University of California, Davis, Title: High Luminosity LHC Physics and the CMS Detector Upgrade; February 21, 2019.

Prof. Rohini Godbole, Title: Top polarisation: a tool for studying the Standard Model and beyond; March 18, 2019.

Prof. Sabyasachi Bhattacharya, Ashoka University (former Director, TIFR), Title: Roll and Stumble: Granular self-organization by auto-tuning of friction & analogies to Run-and-Tumble chemotaxis of bacteria & stampede prevention in a moving crowd; March 29, 2019

### **Conferences Organized**

Visitors Programme-2019, “Recent Advances in Physics” 27th March 2019, Funding: Department of Physics & Astrophysics, University of Delhi (Prof. Nivedita Deo, Convener)

Third workshop on quality assurance for the production of the Outer Tracker sensors” from 22nd January to 24th January 2019, at Department of Physics & Astrophysics, University of Delhi. (Dr. Ashutosh Bhardwaj, Co-Convener)

International Conference on Nano-Structured Materials and Devices,” University of Delhi, Delhi, India, Dec. 17-20, 2018 (Dr. Ajit Mahapatro, Convener)

### **Seminar / Conference Presentations**

Bhardwaj, Ashutosh, Presented paper on Challenges and the recent advancements in Silicon detectors for High Energy Physics Experiments in International conference on Physics, Society and Technology (ICPST-2019), University of Delhi, organized by Deshbandhu College, University of Delhi, 17-19th January, 2019.

Kumar, Binay. Invited Talk on Growth and Characterization of Technologically Important Crystals for Piezoelectric Applications in 22nd International Conference of the International Academy of Physical Sciences (CONIAPS-XXII) Avadh University, Faizabad, April 13-15, 2018.

Mahapatro, Ajit Kr.

Presented paper on Optimal bistable switching in graphene oxide thin film devices, Collaborative Conference on Materials Research (CCMR), Incheon/Seoul, South Korea, June 25 - 29, 2019

Colloquium, Utilization of graphene oxide thin films in nanoelectronics and biosensors, Department of Physics, University of Jammu, Jammu, April 22, 2019.

Deo, Nivedita. Invited talk on Functional Domains in Proteins, in Indian Statistical Physics Community Meeting ICTS Bangalore, India, February 14, 2019

Mandal, Samit Kr.

Invited Talk on Multi-nucleon transfer reaction dynamics near Coulomb barrier in International conference on nuclear, particle and accelerator physics (ICNPAP-2018), Central University of Jharkhand, Ranchi, Jharkhand, India, 26th October, 2018.

Evening Lecture on Nuclear Astrophysics with NuSTAR, SERB School on nuclear astrophysics 2019, Saha Institute of Nuclear Physics, Kolkata, February 25, 2019

Invited Talk on Gamma Tracking Array: A new generation high resolution gamma ray spectrometer for exotic nuclear structure studies in National Conference on “Recent Trends in Research in Applied Sciences: An Interdisciplinary Approach, N. P. University, Medininagar, Jharkhand, December 8, 2018.

Invited seminar on Gamma Tracking Array: A new generation high resolution gamma ray spectrometer for exotic nuclear structure studies in International conference on Physics, Society and Technology (ICPST-2019), University of Delhi, organized by Deshbandhu College, University of Delhi, January 18, 2019.

Jain, Sanjay. Invited Talk on System level dynamics of growing and dividing cells through coarse grained models in Conference on Nonlinear Systems and Dynamics, Jawaharlal Nehru University, Delhi, 11-14 October 2018

### **Other Inter-Institutional Collaboration**

#### **International**

An Indo-US joint networked Center “Theoretical Analysis of Variable Star Data in the era of Large Surveys” was sanctioned in March 2018 by the Indo-US Science and Technology Forum with Nodal PI Prof. H. P. Singh. The other partners are the State University of New York at Oswego, Yale University and IUCAA.

Indo-US Project with Nodal Institute as Delhi University (PI: H P Singh) and SUNY (Oswego), Texas A & M University, University of Florida at Gainesville and IUCAA (Pune) as partner Institutes.

Country-wide collaboration on Compact Muon Solenoid (CMS) experiment in High Energy physics with National (TIFR, SINP, BARC, etc.) and International (CERN, Fermilab, DESY etc.) institutions (B.C. Choudhary, Ashok Kumar, A. Bhardwaj, M. Naimuddin, K. Ranjan)

Collaboration with Queen`s University, Kingston, Canada (Vinay Gupta)

PRESPEC collaboration: GSI, Germany, An Inter-institutional and multi-country collaboration; AGATA collaboration: European collaboration (Professor Samit Mandal)

FAIR collaboration: GSI, Germany, An Inter-institutional and multi-country collaboration (Professor Samit Mandal)

#### **National**

INO Collaboration: India, Inter-institutional collaboration (HEP group)

INGA collaboration: Inter-institutional collaboration (Samit Mandal and Suresh Kumar)

Collaboration with IGCAR (Sevi Murugavel)

Collaboration with IIT Delhi (Vinay Gupta)

Collaboration with Solid State Physics Laboratory (DRDO), Delhi (Vinay Gupta)

Collaboration with National Physical Laboratory, Delhi (Vinay Gupta)

### **Students under Exchange Programme**

Mr. Manoj Kumar Vyas, research student of Professor Amita Chandra, was invited for a research visit to universitat Paderborn under the Research Group Linhage Programme funded by Alexander von Humboldt Foundation.

### **Placement Details**

Ph.D. students joined various national and international universities/institutes as postdoctoral fellows, and as scientists/faculty in various national laboratories/universities/colleges. A fraction of the students joined the industry.

### **Extension and Outreach Activities**

Theatre Performance of “Black Hole”, a piece conceived and performed by Ms. Jyoti Dogra on December 11, 2018, in the Committee-cum-Seminar Room of the Department.

Celebration of Science Day 2019 on February 28, 2019 featuring a public lecture by Prof. Abhishek Dhar, International Centre for Theoretical Sciences, Bangalore on “Patterns in Randomness”, and a poster presentation session by Ph.D. students of the Department.

Twenty selected M.Sc. (Final) students of the Department visited the National Centre for Radio Astronomy (NCRA-TIFR), Pune, and Giant Meterwave Radio Telescope (GMRT-TIFR), Khodad during mid-semester break in March 2019.

Academic visit of M.Sc. Semester IV students of Advanced Nuclear Physics Laboratory of the Department to the Inter University Accelerator Centre (IUAC), New Delhi in March 2019.

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

Ph.D. : 12

### **Faculty Strength**

Permanent : 40

UGC-FRP : 03

DST-INSPIRE : 04

Emeritus : 02

### **Other Significant Information**

The Department was chosen by the NAAC Team/University for an inspection tour during the NAAC team’s visit for accreditation of the University in the period October 28-30, 2018.

A group of around 30 alumni of the batch that joined the Department in 1968 visited the Department on October 29, 2018. The group included distinguished academics from India and abroad (including scientists from Princeton University and Bell Labs), senior administrators (including former IAS and IPS officers), industrialists and others. These alumni of the Department interacted with faculty and present students of the Department.

Annual Raman Ramkumar memorial award in computational physics for meritorious M.Sc. students was awarded.

Summer programme for undergraduate students under EWS category was conducted in June 2018 to train and inspire them for M.Sc. entrance examination in physics.

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## ZOOLOGY

### 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 humans. Faculty members in the last one-year have published approximately 32 research papers in peer reviewed journals of high impact. They have also presented their findings in various National and International conferences. Many of them have been conferred with prestigious honours and have received substantial funding from both 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. In addition, 9 M.Phil. and 22 Ph.D. degrees have been awarded to students in the last one year.

### Honours/Distinctions

Prof. Alok C. Bharti

Fellowship for - INSA CAS Bilateral Exchange program (Senior Scientist) for 2 weeks to visit China (Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences) in 2018. (30-08-2018 to 12-09-2018)

Prof. Madan Mohan Chaturvedi

Member, Board of Governors (BoG), and Board of Management (BoM), GSFC University, Vadodara, Gujarat.

President, Association of Teachers in Biological Sciences, Mumbai, India.

Prof. Rina Chakrabarti

Outstanding Reviewers Certificates from Elsevier's Journals: "Certificates of Outstanding Contribution in Reviewing" for Aquaculture, Fish & Shellfish Immunology and Food Chemistry".

TEC: serving as a member of the technical expert committee on aquaculture and Marine Biotechnology of Department of Biotechnology, Govt. Of India

Member, Board of Governors(BoG), and Moard of management(BOM),GSFC University,Vadodara,Gujarat.

Prof. Rita Singh

Received Prof. L. S. Ramaswami Memorial Oration Award and Gold medal, in recognition of outstanding research in the area of Reproductive health/PCOS, Title of oration: 'Gonadotropin imbalance and Metabolic defects in Polycystic ovary syndrome' during Global Conference on Reproductive Health with focus on Occupational, Environmental and Lifestyle Factors (ISSRF-2019), at JNU Convention Center, Jawaharlal Nehru University, New Delhi, Feb. 22-24, 2019.

### Publications

Agarwal, N., Mishra, I., Rani, S. and Kumar, V. (2018) Temporal Expression of Clock Genes in Central and Peripheral Tissues of Spotted Munia under Varying Light Conditions: Evidence for Circadian Regulation of Daily Physiology in a Non-photoperiodic Circannual Songbird species. *Chronobiology International*.

Bharti A.C., Singh, T., Bhat, A., Pande, D., Jadli. M. (2018) Therapeutic strategies for human papillomavirus infection and associated cancers. *Front Biosci (Elite Ed)*, pp15-73.

Bhat, A., Sharma, A., & Bharti, A.C. (2018). Upstream hedgehog signaling components are exported in exosomes of cervical cancer cell lines. *Nanomedicine*, 13 (17), pp 2127-2138.

- Chakrabarti, R., Clark, W.D., Sharma, J.G., Goswami, R.K., Shrivastav, A.K. and Tocher, D.R. 2018. Mass production of *lemna minor* and its amino acid and fatty acid profiles. *Frontiers in Chemistry* 6:479.
- Chakrabarti, R., Singh, M.K., Sharma, J.G. and Mittal, P. (2019). Dietary supplementation of vitamin C: an effective measure to give protection against UV-B irradiation using fish as model organism. *Photochemical & Photobiological Sciences* 18, pp 224-231.
- Datta, D., Khatri, P., Singh, A., Saha, D.R., Verma, G., Raman, R., Mazumder, S. (2018). *Mycobacterium fortuitum*-induced ER-Mitochondrial calcium dynamics promotes calpain/caspase-12/caspase-9 mediated apoptosis in fish macrophages. *Cell Death Discov.* (Springer-Nature).
- Gautam, M., Bhattacharya, I., Rai, U., Majumdar, S.S. (2018) Hormone induced differential transcriptome analysis of Sertoli cells during postnatal maturation of rat testes. *PLoS ON.*
- Gupta, S., Kumar, P., Kaur, H., Sharma, N., Saluja, D., Bharti, A.C. and Das, B. (2018) Constitutive activation and overexpression of NF-kappaB/c-Rel in conjunction with p50 contribute to aggressive tongue tumorigenesis. *Oncotarget*, 9(68), pp 33011-33029.
- Joshi, B.D., Johnson, J.A., Goyal, S. P., Negi, T., and Negi, R.K. (2018). Non-invasive sampling: reliable methods for DNA extraction and PCR amplification from a single scale of small Cyprinidae fish: *Zoology and Ecology*, 28, pp 425-428.
- Kaur, H., Shashi, Negi, R.K. and 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 J. Protistology*, pp 68-79.
- Khan, N.A., Sharma, J.G. and Chakrabarti, R. (2019). The study of ameliorative effect of dietary supplementation of vitamin C, vitamin E and tryptophan in *Labeo rohita* (Cyprinidae) fry exposed to intense light. *Fish Physiology & Biochemistry*. <https://doi.org/10.1007/s10695-019-00626-5>.
- Khangembam, B.K. and Chakrabarti, R. (2018) Viscera of *Labeorohita*: a potential source of trypsin for industrial application. *Journal of Aquatic Food Product Technology* (Taylor & Francis(accepted).
- Khangembam, C.D., Singh, S.P., Chakrabarti, R. and Sharma, J.G. (2018). The study of effect of various temperatures on the abundance of ammonia oxidizing archaea and bacteria. *Indian Journal of Animal Sciences* 88, pp 626-632.
- Khangembam, C.D., Singh, S.P., Chakrabarti, R. and Sharma, J.G. (2018.) The study of effect of various temperatures on the abundance of ammonia oxidizing archaea and bacteria. *IndianJournal of Animal Sciences (Indian Council of Agricultural Research, I.C.A.R.)* 88, pp 626-632.
- Kumar, N., Sharma, J.G., Singh et al., (2019). Validation of growth enhancing, immunostimulatory and disease resistance properties of *Achyranthes aspera* in *Labeo rohita* fry in pond conditions. *Heliyon* 5. doi: 10.1016/j.heliyon.2019.e01246.
- Kunnumakkara, A.B., Sailo, B.L., Banik, K., et al. (2018). Chronic diseases, inflammation, and spices: how are they linked? *J Transl Med.* 25;16(1):14. doi: 10.1186/s12967-018-1381-2.
- Lohia, R., Jain, P., Jain, M., Mishra, H., Burma, P., Shrivastava, A. and Shweta Saran (2018). Deletion of *Dictyosteliumdiscoideum* Sir2A impairs cell proliferation and inhibits autophagy. *Journal of Biosciences*, 43(2), pp 351-364.
- Maji, A., Misra, R., Dhakan, D.B., et al. (2018). Gut microbiome contributes to impairment of immunity in pulmonary tuberculosis patients by alteration of butyrate and propionate producers. *Environmental microbiology*, 20, pp 402-419.
- Mishra, I., Singh, D. and Kumar, V. (2018) Temporal expression of c-fos and genes coding for neuropeptides and enzymes of amino acid and amine neurotransmitter biosynthesis in retina, pineal and



hypothalamus of a migratory songbird: Evidence for circadian rhythm dependent seasonal responses. *Neuroscience*, 371:309-324.

Pandey, A., Tripathi, S. C., et al. (2018). Differentially localized survive in and stat3 as markers of gastric cancer progression: association with *h. pylori*. *cancer rep* (in press)

Priyam, M., Tripathy, M., Rai, U.,Ghorai, S.M. (2018). Divergence of protein sensing (TLR 4,5) and nucleic acid sensing (TLR 3,7) within the reptilian lineage. *Molecular Phylogenetics and Evolution*, 119, pp 210-224.

Rachappa, V., Hanchinal, S.G., Shekhara, et al. (2018). Refinement and evaluation of artificial diet for rearing of legume pod borer, *Marucavitrata* Geyer (Lepidoptera: Crambidae). *Legume Research* 41(3): 461-467.

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*, 1900006.

Sharma, J.G., Kumar, N. and Singh et al, (2019). Evaluation of immunostimulatory properties of prickly chaff flower *Achyranthes aspera* in rohu *Labeo rohita* fry in pond conditions. *Aquaculture* 503,pp 183-189.<https://doi.org/10.1016/j.aquaculture.2019.02.065>.

Sharma, J.G., Masuda, R and Chakrabarti, R. (2018). The continuous culture of rotifer *Brachionus plicatilis* with seawater. *Madridge Journal of Aquaculture Research & Development* 2: 35-37.

Sharma, J.G., Masuda and M. et al (2018). The continuous culture of rotifer *Brachionus plicatilis* with sea water. *Madridge Journal of Aquaculture Research & Development* 2: 35-37.

Sharma, A., Singh, D., Das, S. and Kumar, V. (2018). Hypothalamic and liver transcriptome from two critical life-history stages in a migratory songbird. *Experimental Physiology*, doi: 10.1113/EP086831.

Shishodia, G., Verma, G. and Das et al., (2018). miRNA as viral transcription tuners in HPV-mediated cervical carcinogenesis. *Front Biosci.*, 1;10:21-47.

Singh, A., Sharma, J.G., Paichha, M. and Chakrabarti, R. (2019). *Achyranthes aspera* (Prickly chaff flower) leaves and seeds supplemented diets regulate the growth, innate immunity and oxidative stress in *Aeromonas hydrophila* challenged *Labeo rohita*. *Journal of Applied Aquaculture*. <https://doi.org/10.1080/10454438.2019.1615594>.

Talwar, C., Nagar, S., Lal, R. and Negi, R.K. (2018). Fish Gut Microbiome: Current Approaches and Future Perspectives. *Indian J. Microbiology*: 58,397-414.

Taufique, S.K.T.,Prabhat, A. and Kumar, V.(2018). Constant light environment suppresses maturation and reduces complexity of new born neuron processes in the hippocampus and caudal midpallium of a diurnal corvid: Implication for impairment of the learning and cognitive performance. *Neurobiology of Learning and Memory*, 147: 120-127.

Venkateswaran, K., Verma, A. and Bhatt et al. (2018). Emerging Roles of Calreticulin in Cancer: Implications for Therapy. *Current Protein and Peptide Science*, 19(4), 344-357.

## Journals

### Editor / Member, Editorial Board of Scientific Journals -22

### Research Projects

International Atomic Energy Agency (IAEA), Vienna: 'Quality improvement of mass reared moths and assessment of competitiveness of radio-sterilized lepidopteran pest, *Spodopteralitura* and its F<sub>1</sub> 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” 2016-2021, Prof. R. K. Seth (PI); € 40,000.

AMAAS and NBAIM, ‘To study the microbial diversity associated with fish gut by using culture dependent and independent approaches’, 2017 - 2020, Prof. Rup Lal (PI) & Dr. R. K. Negi (Co-PI), Rs. 19.5 Lakhs

DBT, ‘Exploring diversity, functional dynamics and biotechnological applications of bacterial communities inhabiting hot water spring atop the Himalayan ranges at Manikaran, Himachal Pradesh, India’, February 2017-January 2020, Dr. R. K. Negi (PI) and Prof. Rup Lal (Co-PI), Rs. 52.2 Lakhs

IAEA/FAO, ‘Field-Deployable Analytical Methods to Assess the Authenticity, Safety and Quality of Food in India’, 2017-2021, Prof. D.K. Singh (PI); EURO 30,000.

DBT, ‘Remediation and reclamation of HCH dumpsite by using microbial bioremediation technology’, March 2018-March 2020, Dr. R. K. Negi (PI) and Prof. Rup Lal (Co-PI); Rs.113 Lakhs.

DBT, ‘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’ 2018-2021, Prof. Rina Chakrabarti (PI), Rs. 58 lakhs.

ICMR, ‘Investigation of molecular mechanism(s) of STAT3-mediated regulation of HPV infection and cervical carcinogenesis’; 2018-2021 Prof. Alok C. Bharti (PI); Rs. 39.6 Lakhs.

NASF (ICAR), ‘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), 2018-2021, (Lakhs), Prof. D.K. Singh (PI);: Total Budget: Rs. 170.84, DU Budget Rs. 95.46 (Lakhs).

DST-SERB, ‘Investigation of the role of exosomes in cervical cancer angiogenesis and endothelial cell conditioning’ 2019-2021, Prof. Alok Chandra Bharti, Rs. ~30 Lakhs (Funds awaited).

UGC, D.S. Kothari Post doctoral fellowship, ‘To identify specific miRNAs attributed to drug resistance in non-small cell lung cancer stem cells’, 2018-2019, Dr. Kavita Baghel. Rs. 6.51 Lakh.

DST-SERB; DST-TARE Program, ‘Targeting of the Spliceosome in Esophageal Squamous Cell Carcinoma’, Dr. Manoj Kashyap, 2019-2022, Rs.3.25 Lakh.

National Bureau of Agriculturally Important Microorganisms (NBAIM, ‘To study the microbial diversity associated with fish gut by using culture-dependent and -independent approaches’, Dr. R. K. Negi, 2017-2020, Rs.20 Lakh.

DBT, ‘Remediation and Reclamation of Hexachlorocyclohexane (HCH) Dumpsite by using Microbial Bioremediation Technology’, 2019-20, Dr. R.K. Negi, Rs. 190.5 lakhs.

### **Seminars organized -2**

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

Organized ISME Ambassador Meet and Workshop -2018 on “Hands on to Computational Biology for (Meta) Genomics Analysis” under the aegis of Kalinga Institute of Industrial Technology and International Society for Microbial Ecology (ISME) at KIIT, Bhubaneswar, May 3, 2018.

### **Seminar/conference presentations**

A.C. Bharti

“Cervical Cancer – a success story from an immunologist viewpoint Even a small star shines in the dark”, The World Immunology Day, ‘Nurturing Immunobiology...and Beyond’, Department of Zoology, University of Delhi. May 11, 2018.

“STAT3: A master regulator or prime target of HPV-induced tumorigenesis”, 38th Annual Convention of Indian Association for Cancer Research, Chandigarh, March 01, 2019.

“Viral Oncoproteins as Regulators of Cervical Cancer Stem Cells and Chemo/Radio-resistance”, Delhi State Cancer Institute. December 29, 2018.

“Anti-Cervical Cancer and Anti-HPV Activity of Nutraceuticals & Plant Derived Homoeopathic Formulations”, International conference on Nutraceuticals and Chronic Disease, Rishikesh. September 14-16, 2018.

“Exploration of Exosomal Cargo from Cervical Cancer Cells and its Functional Relevance”, International symposium on “Tumor microenvironment and cancer prevention and therapeutics”, School of Life Sciences, JNU, New Delhi. February 09, 2019.

“Cancer: A challenge, Whatsappgyan and career prospects” at Hitech Ghaziabad, INSPIRE. January 20, 2019.

“Cervical Cancer and Exosomes: From Trash Cans to Signalosomes” at Indian Institute of Technology, Guwahati, February 11, 2019.

“Cancer: A challenge and career prospects” at Hitech Ghaziabad, INSPIRE. July 30, 2018.

“Human papillomavirus – induced tumorigenesis” at Bhaskaracharya College of Applied Sciences, Delhi University on February 05, 2019.

HPV and Cervical Cancer Stem Cells: Viral Oncoproteins as Causative Link and Promoter of Chemoresistance. Sun YatSan, Guanzhou. September 07, 2018.

STAT3: is it a master regulator or prime target of virally-induced tumors? INSA –CAS Bilateral Exchange Program, GIBH visit. August 31, 2018.

Jain, S., Gouri and S. Basu-Modak, Analysis of sex-ratio in mouse embryos from females which are heterozygous for Hmox1 gene, National Conference on Trends in Life Sciences and Biotechnology: Innovative Paradigms, Maitreyi College, University of Delhi, Feb 19-20, 2019. (Poster Presentation)

Namita Agrawal, ‘Fruitfly *Drosophila* in the nanoworld: Berating impact on environment and human health’ in International Conference on “Changing Environment: Understanding the Emerging Challenges and their Management Strategies”, Kalindi College, University of Delhi, New Delhi, India, April 10-12, 2019.

Rina Chakrabarti, Evaluation of Immunostimulatory properties of *Achyranthes aspera* in Rohu *Labeo rohita* in Pond conditions’ in 18th International Symposium on Fish Nutrition and Feeding (ISFNF) organized by International Scientific Committee of ISFNF, Las Palmas de Gran Canaria, Spain; June, 2018.

Rita Singh, “Environmental threats to Reproductive Health: Increasing PCOS/PCOD in young women in India”, International Conference on Changing Environment: Understanding the Emerging Challenges and their Management Strategies With Pre-conference Workshop “The Foldscope” in International Conference on “Changing Environment: Understanding the Emerging Challenges and their Management Strategies”, Kalindi College, University of Delhi, New Delhi, India, April 10-12, 2019.

T. Singh, Pande, D., Jadli, M., Bhat, A., Aggarwal, N., Thakur, K. and Bharti, A.C.. Anti-Cervical Cancer and Anti-HPV Activity of Nutraceuticals & Plant Derived Homoeopathic Formulations. 3<sup>rd</sup> International Conference on Nutraceuticals and Chronic Diseases, Swami Rama Himalayan University, Jolly Grant, Doiwala, Dehradun, Uttarakhand. September 14-16, 2018. (Poster Presentation)

Vinod Kumar, “Chronobiology: Translation Opportunities and Challenges”, V World Congress in Chronobiology, Suzhou, China, April 24-27, 2019.

Vinod Kumar, “Biological Rhythms”, World Federation of Societies for Chronobiology (WFSC), Chinese Society for Biological Rhythms, JBR-SAGE symposium on Chronobiology, Suzhou, China, April 25-27, 2019.

Vinod Kumar, ‘Time, Brain and Behaviour’ in International Symposium on Biological Rhythm, Meerut, March 11 – 13, 2019.

Vinod Kumar, ‘The clocks and seasonal calendars in song birds’ ,32<sup>nd</sup> Annual meeting of the Society for Reproductive Biology, MS University, Baroda, January 19-21 2019.

Vinod Kumar, ‘The clocks and seasonal calendars in song’ 27<sup>th</sup> International Ornithological Congress, Vancouver, Canada; August 19-26, 2018.

### **Students under exchange program**

A training programme on “Recent Advances in Fish Nutrition” was organized by Aqua Research Lab, Department of Zoology, University of Delhi during March 15-17, 2019 (*Twenty-five candidates from five different countries - Kenya, Tanzania, Bangladesh, Nepal and India, were selected for this programme*).

### **Other Institutional collaborations**

Prof. D. K. Singh in collaboration with 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 (Lacs)

Prof. Rina Chakrabarti, Department of Biotechnology (DBT), Associated Institutes: Delhi Technological University, Central Institute of Fisheries Education (CIFE), Rohtak Centre, Indian Council of Agricultural Research, 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.

Prof. Rina Chakrabarti has a DBT(India) – BBSRC (UK) collaborative project in which, the following collaborators are involved: Goa University, Kerala University of Fisheries, Delhi Technological University (India); University of Stirling, Scottish Association for Marine Science (UK); Sokoine University of Agriculture, Aqua cultural Association of Kenya, State Department of Fisheries (Africa).

Prof. R. K. Seth-International Atomic Energy Agency (IAEA) with Institutes/Universities/Laboratories of following countries, Vienna, USA, UK, India, China, Uganda, 2016-2021, “Quality improvement of mass reared moths and assessment of competitiveness of radio-sterilized lepidopteran pest, *Spodopteralitura* and its F<sub>1</sub> 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*” ,€ 40,000

### **Extension and outreach activities**

Rina Chakrabarti

Participated as a Fishery expert in the discussion on “Ornamental and Food Fishes” on India Science, DST Channel, Govt. of India on February 6, 2019.

Participated as a Fishery expert in the discussion on “Animal Health Management in Spring” on DD Kisan Channel, Govt. of India on March 11, 2019.

Rita Singh

Convener, specialization in Molecular endocrinology and reproduction, organized a visit of M.Sc. students to ICAR-NDRI, Karnal, Haryana, aimed to develop skill based outlook of students towards breed improvement, preservation of high milk yielding cattle breeds, and conservation of indigenous cows by sperm freezing and preservation.

Chairperson of a session during an outreach program on Environmental toxins and Health under National Seminar on Reproductive Health Awareness for Senior School students in Birla Balika Vidyapeeth, BITS Campus, Pilani, Rajasthan, Sept. 15 – 16, 2018. She delivered an awareness lecture on “*How Plastics cause hormonal imbalance in Children*”.

#### **M.Phil. / Ph.D. Awarded**

M.Phil. - 9

Ph.D. - 2

#### **Faculty Strength**

Permanent – 17

#### **Other Significant Information**

Prof. D.K. Singh was appointed member, Training, Research and Academic Council (TRAC) of Wildlife Institute of India, with effect from May 10, 2018 for three years.

Prof. Madan Mohan Chaturvedi was appointed as: member of CPCSEA, Min. of Environment & Forest and Climate Change, Govt. of India (2018-21); member of Animal Science Committee, Department of Science and Technology, Govt. of India (2018-21); expert member of BioCARE, Department of Biotechnology, Govt. of India; expert member of DBT National Research Associateship committee, Department of Biotechnology, Govt. of India.

Prof. Rina Chakrabarti was appointed as member of the Technical Expert Committee on “Aquaculture and Marine Biotechnology” of Department of Biotechnology, Government of India, New Delhi since October, 2018,

Prof. Rina Chakrabarti serving as: member of the Task Force Committee on “Aquaculture and Marine Biotechnology” of Department of Biotechnology since October, 2017.

Prof. Rina Chakrabarti was visiting Professor at INRA-Centre Val de Loire, 37380 Nouzilly, Tours, France to exchange valuable research outcome on Real-Time Receptor and messenger interactions, from June 18-August 17, 2018.

Prof. Rina Chakrabarti served as chairperson in the 18<sup>th</sup> International Symposium on Fish Nutrition and Feeding (ISFNF) organized by International Scientific Committee of ISFNF held at Las Palmas de Gran Canaria, Spain, June 3 -7, 2018.

Prof. R. K. Seth appointed as: an advisor, Ministry of Environment and Forests, Govt. of India, UGC Nominee for CAS/SAP programme in Zoology Department, Annamalai University, Tamil Nadu; UGC Nominee for CAS/SAP programme in Zoology Department, Punjabi University, Patiala; UGC Nominee for CAS/SAP programme in Zoology Department, Panjab University, Chandigarh.

Prof. Shibnath Mazumder visited Rajiv Gandhi Central University as INSA-Teacher Fellow, March 5- 8, 2018.

Prof. Vinod Kumar was appointed as: member, International Committee, V World Congress in Chronobiology, Suzhou, China (2019); member, Program Committee for Asian Chronobiology Forum meeting, Sapporo, Japan. (2018); convener, Symp. on Avian clocks and calendars, Int. Ornithological Congress., Vancouver (2018).

Prof. Vinod Kumar attended Workshop on Time, Brain and Behaviour. Meerut, 6-10 March 2019.

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## FACULTY OF SOCIAL SCIENCES

### ADULT, CONTINUING EDUCATION AND EXTENSION

#### Major Activities and Achievements

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, 10 students and 4 students with a faculty attended on each occasion in 2015, 2016, 2017 2018 and 2019. The Students of Wurzburg University also visited Department of Adult Continuing Education & Extension in Autumn School, September, 2018. 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 & Nitish. (2018). Innovation and opportunities to Marginalized Group in India, Experiences of Community Learning Centres. *India Journal of Adult Education*, 9(3), 104-120.

Rajesh & Singh. J. P. (2018). Community Learning Centres as a Tool for Women Empowerment. *IAEA*.42-50.

Rajesh. (2018). Innovation and opportunities to marginalized Groups in India: Experiences of Community Learning Centre. *IAEA*, Vol. 78 (04), 104-110.

Rajesh, Anand & Nitish. (2018). Lifelong Learning in South East Asia: A study of SAARC Nations. *Indian Journal of Science and Education*. 368-373.

Sisodia, V., & Goswami, D. (2017). Understanding socio-economic conditions of Rickshaw pullers of Delhi after introduction of E-rickshaws. *Indian Journal of Adult Education*, 8(02), 40-51.

Singh et al. (2018). Effect of foliar application of Boron and Zinc on growth and flowering characters in African marigold CV Pusa Narangi Gainda. *Journal of Ornamental Horticulture*. 21 (1), 1-6.

Singh et al. (2019). Role of microbes in restoration ecology and ecosystems services. In *New and Future developments in Microbial Biotechnology in Agro-Environmental Sustainability*. Elsevier Publication Amsterdam, Netherlands. 57-68.

Sisodia, S., & Puysh. (2018). Saga of Child Rag pickers – obstructions and constraints. Vandana Sisodia and Puysh. *International Journal of Applied Research*. 04 (12).

#### Research Projects

UGC (Indo-German Partnership in Higher Education at German Academic Exchange Service (DAAD) and University Grants Commission (UGC), *Adult and Life Long Education: India and German Insights*, 2016-2020, € 118140/- (Rs. 88,00,000/-)

#### Seminars Organized

Autumn School 10<sup>th</sup> – 21<sup>st</sup> September, 2018

#### Seminar/Conference Presentations

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 13<sup>th</sup> Faculty, 2019.

J. P. Dubey

KeyNote address on Rural Development & Extension on 22<sup>nd</sup> February, 2017, Jammu University.

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, Department of Journalism Kalindicollege, . March 23-24 2017.

Vandana Sisodia. A study of awareness about “Swachh Bharat Mission among students of , North Campus.Third National Symposium on Environment challenges :Generation next, March 31, 2017.Desh bandhu College ,

Participated in National Conference on Teacher education: Current scenarios and future possibilities, at CIE, Department of education, and . March 10 -11, 2017

#### **National/International MoUs Signed**

Indo German Project MoU with JM University, Wurzburg , Germany

#### **Students under Exchange Programme**

Student exchange Programme with JM University, Wurzburg, Germany

#### **Extension and Outreach Activities**

Students visited various civil society organizations for internship and concurrent field work programme to have practical experience along with academic knowledge.

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

Ph.D - 06

M.Phil - 08

#### **Faculty Strength**

Permanent Faculty - 06

Temporary - Nil

Ad-hoc - Nil

#### **Other significant information**

V. K. Dixit invited as an expert for curriculum revision in the University of Jammu on 23<sup>rd</sup> and 30<sup>th</sup> April, 2019.

Dr. Vandana Sisodia and Mr. Rahul Yadav, visited as Mentor in University of Wurzburg, Germany, February, 2019 .

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### **AFRICAN STUDIES**

#### **Major activities and Achievements**

The Department of African studies was established in 1955 by the First Prime Minister of India (Late) Pandit Jawaharlal Nehru, specializes in History, Politics, Society, Economy, Geography and Literature on African affairs. The Department is actively engaged in teaching and training the scholars to do research. The M.Phil. and Ph.D. scholars are trained to conduct research on the relevant issues and topics related to Africa and produce quality research paper. till date the Department has awarded M.Phil. Degree to 416 scholars Ph.D. degree to 109 scholars. Besides, department also teaches Swahili, one of the major African languages spoken in Eastern Africa. Till today more than 200 students have been awarded Diploma and

Certificate in Swahili Language. Many of them are engaged in the work of translation and interpretation for those who are doing their business in Africa. Department conducts in-depth study and research on selected issues in the various study groups it has set up such as study groups on India Africa Relations, study group on South Africa, Human Rights, Refugees and Sudan Study Units.

### **Publications**

Dash S. (2018). Mapping the Global Experience of Secularism: An Indian Perspective ed. Politics for a New India: A Nationalist Perspective.

Dash S. (2018). India-Africa Relations: Issues and Priorities, Imagining India as a Global Power: Prospects and Challenges.

Kumar S. (2019). Morocco: Fast Tracking Progress. Afroasian Business Chronicle. Vol 9, Issue 1 .

Kumar S. (2019). India and South Africa: Friends on Toes and Friendship Remains, Diplomatist, Extraordinary and Plenipotentiary.

Kumar S. (2018). Cultural Diversity in India and Africa: A Strength Not A Problem, *Indian Journal of African Studies*, Vol. XXIII.

Kumar S. (2018). India and Africa Trade Relations. Diplomacy & Beyond Plus.

Kumar S. (2019). Morocco: Fast Tracking Progress. Afroasian Business Chronicle. Vol 9, Issue 1 .

Kumar S, India Opinion on Morocco-Cuba-Reactions.

Pathak V, (2018) India-Africa Cultural linkages: A Study of the Siddi Tribe in Gujarat, *Indian Journal of African Studies*, Vol. XXIII, No. 1& 2, pp. 10-25.

Pathak V, (2018), India and Africa on a Momentous Journey of Ever-Rising Ties, *Diplomatist*, Vol. 6, Issue 4, pp. 49-52.

Pathak V (2018), Indian Diaspora: A Strategic Asset for Indian Foreign Policy in the 21st Century, *Imagining India as a Global Power: Prospects and Challenges*, London & New York: Routledge, Taylor & Francis.

Pathak V (2018), *Imagining India as a Global Power: Prospects and Challenges*, London & New York: Routledge, Taylor & Francis.

### **Number of Department teacher serving as Editor(s)/Members of editorial board**

Managing Editor- one faculty serving in two journals

Editorial Board Member - one faculty serving in two journals

### **Research Projects**

ICSSR-NIHSS), 2016-2019, International Joint Research Project on Religion, Yoga and Education in India and South Africa.

UNESCO, 2012-continuing Research Group on African and Brazilian knowledge, practices, education and histories in a Southern Perspective, Porto University, Brazil.

### **Seminars Organized**

Total number of seminar organized -3

Prof. R. Mukandala, Vice Chancellor, University of Dar-es-Salaam (UDSM), Tanzania “Contemporary Trends in African Politics” 9th October, 2017.



Dr. Davendra Rajawat, Chief executive Officer, Metro SDA Hospital Ltd. Kitwe, Zambia “Health and education System of Zambia”, 23rd January, 2018.

Prof. Kenneth King, African Studies & School of Education, The University of Edinburgh, “Contemporary Africa” 2nd February, 2018.

### **Conferences Organized**

International Ambedkar Conclave: Constitution, Education, Skill Development, Economy and Entrepreneurship for SCs& STs’ held by the Forum of SC and ST Legislators and Parliamentarians, 27-28 November 2017.

Inclusive Tribal Congregation: Sharing Experiences of India and Africa, 22nd February, 2018

International Conference on Transforming Africa: Potentials & Challenges. organized by Department of African Studies, University of Delhi with the support of Indian Council of Social Science Research (ICSSR), 06-08 February 2019.

International Conference on “Transforming Africa: Potentials & Challenges”, 6-8 February 2019,

### **Seminar / Conference Presentation**

A.S. Yaruangam

International Conference on Asian Tycoons Investment on Land in Africa: Myth or Reality at Jamia Millia Islamia University, Delhi on 15-17 Feb,2018.

International Conference on PAN – African E-Network: From the Perspective of India – Africa Relation on 19-20 Feb,2018.

National Seminar on Implementation of PAN – African E-Network: Challenge & Prospects at Madras University on 28th Feb., 2018.

Special Lecture on “A Call to the Church for Social transformation” at Manipur on 15-17th March, 2018.

Gajendra Singh

Presentation on Society and culture of Khoisan Community of South Africa in Sharing Development Experiences in Africa and Eurasia at Centre for Central Eurasian Studies & Centre for African Studies, University of Mumbai and Observer Research Foundation Mumbai at University of Mumbai on 19-20th February, 2018.

Presentation on Revisiting Gandhi and Ambedkar title “Gandhi and his Satyagraha in South Africa at Satyawati College, University of Delhi, on 24th Oct,2017.

International Conference on “Value, Ethics & Society of Pastoral Community of East Africa” at Vigyan Bhawan, New Delhi, on 22nd Feb,2018

Rashmi Kapoor

‘Paris Agreement and impacts of climate change on rivers: A comparative study of the Nile river and the Indus river’ at the two day National Seminar on Adaptation and Implementation of Paris Agreement : National Initiatives towards “ Climate Change Mission” organized by the Department of Geography, Shaheed Bhagat Singh Evening College, University of Delhi, Sheikh Sarai Phase – II, New Delhi – 110017 held on April 21-22, 2017.

‘Environment Sustainability and Conservation in Africa: Revisiting Traditional African Knowledge.’ at National Seminar on ‘Environment Sustainability and Conservation: Issues and Challenges in 21st Century’ at Satyawati College on 15 November 2017.

“Seven decades of the Partition: Unsettled Emotions and Entangled Identities. “at the National Seminar on ‘Decoding the Partition L(I/a) nes: Reflections on Language, Literature, and Culture’ jointly organized by Kirori Mal College, University of Delhi, Delhi and National Council for Promotion of Sindhi Language, MHRD, Govt. of India held on 6-7 February 2018.

“Understanding the Nature of Impact of Weather Conditions and Other Pollutants on the Air Quality: A Statistical Model. at the International conference on ‘Advancing Green Chemistry: Building a Sustainable Tomorrow’ jointly organized by Green Chemistry Network Centre, Department of Chemistry, University of Delhi and Hindu College, University of Delhi held on 3-4 October 2017.

“Changing occupational patterns of transhumance pastoralists: A comparative study of the Maasai tribe of East Africa and the Gaddi tribe of Himachal Pradesh in India.at the International conference on ‘Inclusive Tribal Congregation: Sharing Experiences of India and Africa’ jointly organized by the Forum of SC and ST Legislators and Parliamentarians and the Department of African Studies, University of Delhi, Delhi, held on 22 February 2018

India’s Rising Global Stature in the 21st Century: Contextualizing in India’s External Relations with Africa.” at the at International Conference on ‘21st Century India: Interrogating Social Economic, Political and Environmental Processes’ Organized by BA(Prog.) Society, Satyawati College (Evening) University of Delhi. Delhi held on 24th – 25th April 2018.

Sandipani Das

Financial Reforms in African Union: A Collective Self Reliance Perspective, International Conference on “Transforming Africa: Potentials & Challenges”, Department of African Studies, University of Delhi on 6-8 February 2019.

Liberal-Idealist Contemplation in Non-Western World: A Study of Ubuntu in Africa, National Seminar Indic Perspective on International Relations, Dept of Political Science and International Relations, Gautam Buddha University on 1-2 February 2019.

Ideational Narrative of India as a Global Power: A Study of Vasudheiva Kutumbakm, 58th All India Political Science Conference of IPSA, C.C.S. University, Meerut on 29-30 December 2018.

Suresh Kumar

International Conference on Social Justice, Sustainable Development and Quality of Life, 31 March-04 April 2019, Organised by National Institute for Humanities and Social Sciences (NIHSS) & South Africa BRICS Think Tank (SABTT), Parktonina Hotel, Johannesburg, South Africa. on 31 Mar, 2014.

International Conference on Conceptualization of Transforming Africa: Potentials & Challenges. Department of African Studies, University of Delhi & ICSSR. Satyakam Bhawan on 06-08 Feb, 2019.

International Moussem de Tan, 14th edition Cultural Festival and Green Investment Conference was organised by UNESCO and de la Fondation Almougggar, Morocco on 6-9 July 2018

Delegate, International Conference on 14 CII India-Africa Project Partnership, Taj Palace, Delhi on 17-19 March, 2019.

Delegate, First IBSA Gandhi-Mandela Memorial Freedom Lecture by H.E. Mr. Matamela Cyril Ramaphosa, President of the Republic of South Africa in the presence of Sh. Narendra Modi, Priem Minister of India. The Leela Palace. Delhi on 25 January 2019.

International Conference on Transforming Africa: Potentials & Challenges. Department of African Studies, University of Delhi & ICSSR. Satyakam Bhawan. On 06-08 February 2019.

Invited Lecture in Faculty Development Program on Ethics and Research in Social Sciences, Sri Guru Nanak Dev Khalsa College, University of Delhi on 1st May 2018.

Vidhan Pathak

“Indian Diaspora and HSS: A Study in Kenyan Context” in International Conference on Transforming Africa: Potentials & Challenges organized by Department of African Studies, University of Delhi on 06-08 February 2019.

“India and Indian Ocean Region: Strategic Partnership with WIO Island States” in National Conference on Indic Perspective on International Relations organized by Department of Political Science and International Relations, School of Humanities and Social Sciences, Gautam Buddha University, Greater Noida, UP on 01-02 February 2019 .

“Russia–Libya Relations: A Geostrategic Perspective” in International Seminar on Sharing Development Experiences in Africa and Eurasia organized by Centre for Central Eurasian Studies & Centre for African Studies, University of Mumbai and Observer Research Foundation Mumbai at University of Mumbai on 19-20th February, 2018.

“Idea of Integral Humanism: Relevance for the Contemporary World” in National Conference on Integral Humanism: A Vision and Mission organized by Department of Political Science, Maharaja Agrasen College, University of Delhi in association with Indian Council of Social Science Research (ICSSR) on 5-6th January, 2018 .

“Idea of Integral Humanism: Relevance for the Contemporary World “in National Conference on Integral Humanism: A Vision and Mission organized by Department of Political Science, Maharaja Agrasen College, University of Delhi in association with Indian Council of Social Science Research (ICSSR) on 5-6th January, 2018.

#### **Number of M.Phil. / Ph.D. Degree Awarded**

Ph.D. - 7

M.Phil. - 13

#### **Faculty Strength**

Professor - 3

Associate Professor - 2

Assistant Professor - 2

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### **EAST ASIAN STUDIES**

#### **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. 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.

### **Publications**

Balatchandirane, G. (2018). Higher Education in India and China: Game Changer or Opportunity Lost? Sreemati Chakrabarti (ed.) *Higher Education in India and China: Select Perspectives*. Aakar Books: Delhi. 74-104.

Balatchandirane, G. (2018). Not without blood, sweat and tears: Peasant farming in prewar Japan. *China Report*. 54 (2), 194-212.

Bhattacharya Abanti. (2019). Emerging Foreign Policy Trends Under Xi Jinping. In M.S. Prathibha, ed. *East Asia Strategic Review: China's Rising Strategic Ambitions in Asia* (: Pentagon Press).

Mukhopadhyaya, Ranjana, The Sino-Japanese War, Pan-Asianism and the interactions between Indian and Japanese leaders during the World Wars: Implications for Colonial and Post-Colonial relations in East Asia. *The Sino-Japanese War and the changes in East Asia*. Edited by Huang Tsu-chin and Pan Kuang-che. Modern Sino-Japanese Relations Study Series. Academia Sinica, 2018.

### **Research Project**

ICHR-JSPS Joint research Project "Japanese Pilgrimages to Bodhgaya: Buddhist Revival Movements in India and Exchanges between India and Japan." Mukhopadhyaya Ranjana, 2016-2018, 5 lakhs.

### **Seminars Organized -27**

Dr. Carol Dorman, Ryerson University Toronto, "Art and Culture: Woodblock Prints in Edo Period Japan" 22nd October, 2018.

Dr. Debasish Chaudhuri, Author, Xinjiang and the Chinese State Adjunct Fellow, Institute of Chinese Studies, Xinjiang Problem: Theoretical Aspect 9<sup>th</sup> April, 2018 .

Kim Ki-Jung, Department of Political Sciences and International Studies in Yonsei univ. former Deputy Director, Office of National Security, the Blue House and Mr. Yoo Chang-ho, Minister Counsellor, Embassy of the Republic of Korea in New Delhi, Peace and Denuclearization Process on the Korean Peninsula 16<sup>th</sup> April, 2018.

Deepak Mishra, Centre for the Study of Regional Development, School of Social Sciences J.N.U, Perspectives on Research in Social Sciences, 6<sup>th</sup> August, 2018.

Ikeda Isao, Cultural History of Tuberculosis, 16<sup>th</sup> August, 2018.

Hiroyuki Sato, Mahabharat Kabuki Tarike Se, 20<sup>th</sup> August, 2018.

Hon-Shiang Lau, Professor Management Science Oklahoma State University (U.S.A) Professor Operations Management City University of Hong Kong, China's Perception of Tibet during Ming and Qing Dynasty 12th April, 2018 (special Lecture)

Ikeda Isao, International Seminar, Indo-Japan Literary Exchange, 28<sup>th</sup> August, 2018.

H.E. Ambassador Shin Bongkil, Embassy of the Republic of Korea, New Delhi, "Recent Development in India-Republic of Korea Relations" 01<sup>st</sup> October, 2018.

Ambassador Shivshankar Menon, National Security Adviser of India (January 2011-May 2014), Foreign Secretary of India (October 2006-July 2009), former Indian Ambassador to China and Israel High Commissioner to Pakistan and Sri Lanka, V.P. Dutt Memorial Lecturer, 20th April, 2018.

### **Conference Organized**

National Conference "Party under Xi Jinping: Elitist or Inclusive" on 14<sup>th</sup> Feb-15<sup>th</sup> Feb, 2019.

### **Seminar/Conference Presentations**

Basu Ambika, "An experience of translating Takuboku's tanka in Bangla and Hindi" presented in INDO-JAPAN LITERARY EXCHANGE on August 28, 2018.

Basu, Ambika, "The role of Digital Resources in Japanese Learning" in International Conference on Japanese Language Education in South Asia Education in South Asia on 25th Feb to 26th Feb, 2019

Bhattacharya Abanti, Korean Current Affair Seminar "Peace & Denuclearization Process on the Korean Peninsula" on 16 April, 2018

Bisht, Harsh, "Culture of Garhwal region of Uttarakhand and Japan: a comparative study" in presented in International Conference -Cultural and Literary Research in India and Japan on September 7th & 8th, 2018

Choudhary, Rashi, "My first encounter with Ishikawa Takuboku's Tanka" presented in INDO-JAPAN LITERARY EXCHANGE on August 28, 2018.

Dhawan, Ranjit Kumar, "China's Relationship with North Korea under Xi Jinping" on 14th Feb to 15th Feb, 2019

Gagandeep, "My first encounter with Ishikawa Takuboku's Tanka" presented in INDO-JAPAN LITERARY EXCHANGE on August 28, 2018.

Gupta Sweety, "Benefits and Challenges" in International Conference on Japanese Language Education in South Asia Education in South Asia on 25th Feb to 26th Feb, 2019.

Kumar Aparna Ram, "My first encounter with Ishikawa Takuboku's Tanka" presented in INDO-JAPAN LITERARY EXCHANGE on August 28, 2018.

Mandal Rakhi, "My first encounter with Ishikawa Takuboku's Tanka" presented in INDO-JAPAN LITERARY EXCHANGE on August 28, 2018.

Mukhopadhyay, Ranjana: Bose's association with Japan and the making of Provincial Government of Free India. Paper presented at the National Seminar on Impact of the Provisional Government of Azad Hind on Indian Freedom Movement and the World: Revisiting History (On the occasion of 75 years of the establishment of the Provisional Government of Azad Hind) organized by Indian Council of Historical Research (ICHR). January 23 & 24, 2019.

Chair and Paper presenter at the Fourth Asia Future Conference (AFC4) Round Table 2nd Southeast Asia Inter-Religious Dialogue: Tolerance and Reconciliation. August 25 -26, 2018 (Sat) .Seoul, South Korea. Organized by Atsumi International Foundation Sekiguchi Global Research Association (SGRA) .

Narsimhan. Ranjana, "Teaching Methodology and an Academic Interaction" in Special Workshop, on 02nd April, 2019.

Panda, Nabin Kumar

Presented paper on Collaborative Teaching of Japanese in India in International Conference on Japanese Language Education in South Asia Education, 25th Feb to 26th Feb, 2019.

Delivered talk on "Teaching Methodology and an Academic Interaction" in Special Workshop, 02nd April, 2019.

paper on "My reflections on translating Takuboku's tanka in oriya" presented in International Seminar- INDO-JAPAN LITERARY EXCHANGE on August 28, 2018.

Rahi Avinash Chand, "loneliness as seen in Takuboku's tanka" presented in INDO-JAPAN LITERARY EXCHANGE on August 28, 2018.

Roy, Shreeparna, "China and the Arab World: A Model for Indian Foreign Policy?" in National Conference on 25<sup>th</sup> March, 2019

Sachidanand, Unita

Presented paper on "Distance Learning: Development of Course And its Challenges" in International Conference on Japanese Language Education in South Asia Education in South Asia on on 25<sup>th</sup> Feb to 26<sup>th</sup> Feb, 2019.

Presented paper on International Conference -Cultural and Literary Research in India and Japan "Learning Language and Culture through Literature: A case study of "Izu no Odoriko" on September 7<sup>th</sup> & 8<sup>th</sup>, 2018. Chaired, Academic Session 1, in the conference "Cultural and Literary Research in India and Japan" on 7<sup>th</sup> September, 2018. Doon University.

Chaired, Session -1, in the International conference "Japanese Language Education in South Asia" on 25<sup>th</sup> Feb, 2019. IFFLU.

Sahu, Janardhan, National Conference on Xi Jinping's Taiwan Policy on 14<sup>th</sup> feb to 15<sup>th</sup> Feb, 2019

Thapliyal, Stuti, "Culture of Garhwal region of Uttarakhand and Japan: a comparative study" preented in International Conference -Cultural and Literary Research in India and Japan on September 7<sup>th</sup> & 8<sup>th</sup>, 2018

Thapliyal Stuti, "My perception on Takuboku's Tanka while rendering into hindi" on presented in INDO-JAPAN LITERARY EXCHANGE on August 28, 2018.

#### **National/International MoUs Signed**

MoU between and Taipei Economic and Cultural Centre, India

MoU between and National Chung Cheng University, Taiwan, R.O.C.

#### **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 Studies 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 Japanese Embassy.

Japan Foundation Collaborative Workshop

#### **Students under Exchange Programme**

Inbound - Ms. Minako Wakasugi, Diplomatic Competition between South and North Korea in NAM and "Korean Question" in the UN in 1975, 05<sup>th</sup> March, 2019

Outbound - Five students visited Japan for 10 days under JENESUS Programme by Embassy of Japan

#### **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.

### **Extension and Outreach Activities**

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 student in our Department.

Academic Lectures and academic exchange followed in cultural programme by Chinese language Students and SFL on 27.03.2019

Dr. Unita Sachidanand delivered lectures on Indian Education and interacted with various Universities and faculty in south Korea from 21st April to 27th April

### **Number of Ph.D./M.Phil awarded**

Ph.D. - 3

### **Faculty Strength**

Permanent - 11

Ad-hoc - 3

Guest - 7

Visiting Faculty - 3

### **Any other significant information**

Dr. Paresh Kumar availed Educational Field Trip to the English and Foreign Language University, Telangana, Hyderabad from 24 Feb. to 2 Mar.19

Two students got scholarship to do research in Japan (short term & Long term)

Ikeda Isamu and Ms. Geng Yanxia were sent to the Department as Visiting Faculty from 17.08.2017 to 31.08.2017 under the MoU signed between and Taipei Economic and Cultural Centre in India.

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## **ECONOMICS**

### **Major Activities and Achievements**

During the period April 2018 to March 2019, members of the department of Economics continued to contribute to the field of economics in significant ways. Several faculty members published their research works in leading national and international professional journals. They also participated in policy debates through writings in popular journals and produced two well-regarded economic forecasts. The department

remains a UGC Centre of Advanced Study and for the sixth successive year it was ranked the highest amongst university economics departments in India by Repec, a global electronic archive of working papers and publications in Economics (<http://ideas.repec.org/top/top.india.html>). Faculty members also participated in several national and international conferences. During the year, the department organized two major international conferences and a weekly seminar series that brought in distinguished speakers from India and abroad to present their research. The Department supports M.A., M.Phil. and Ph.D. programmes. In 2018-19, as many as 3006 students applied for the M.A. programme. The Department also continues to attract research students for its M.Phil. and Ph.D. programmes. A regular colloquium was organized for M.Phil. and Ph.D. students, at which research students presented their work in progress and faculty members lectured on research methods and ethics. Research students presented their work at professional conferences too. The Department has been very successful in placing its Masters graduates in corporate jobs as well as in Ph.D. programmes in the top-grade universities abroad.

### **Honours/Distinctions**

Prof. Aditya Bhattacharjea

Member, Standing Committee on Industrial Statistics, Ministry of Statistics and Programme Implementation, Government of India, 2012 – 18.

Member, Technical Committee for “Funding Research Studies, Workshops and Conferences”, Research and Analysis Division, Ministry of Corporate Affairs, Government of India, 2017 – present.

Member, Competition Law Review Committee, Ministry of Corporate Affairs, Government of India, 2018 – present.

Prof. Pami Dua

Member, Monetary Policy Committee, Reserve Bank of India, 2016 to 2020

Editor, Indian Economic Review (till December 2018)

Editorial Board, Journal of Quantitative Economics, Journal of Developing Areas

Prof. Shreekant Gupta

Nominated as a Lead Author for Sixth Assessment Report of Intergovernmental Panel on Climate Change (IPCC), one of 32 from India (among a total of 721 experts from 90 countries)

Vice-President, Indian Society for Ecological Economics (INSEE) for a two year term (2018-2020).

Prof. Dibyendu Maiti

Member, Manav Rachana International Institute of Research and Studies.

Associate Editor: Progress in Development Studies, Sage (UGC recommended journal).

Prof. Meenakshi J. V.

Member, National Statistical Commission, Ministry of Statistics and Programme Implementation, Government of India.

Member, Standing Panel on Impact Assessment, International Science and Partnership Council of the Consultative Group on International Agricultural Research.

Prof. Ram Singh

Member, Appeal Committee, the National Assessment and Accreditation Council (NAAC), Government of India.



Sub-domain Chair for The Scheme for Promotion of Academic and Research Collaboration (SPARC), Government of India.

Prof. Rohini Somanathan is a 2018- Appointed International Economic Association (IEA) Fellow (life-time title).

### **Publications**

Bhattacharjea, A. (2018). Predatory Pricing in Platform Competition, in A. Bharadwaj, V. H. Devaiah & I. Gupta (eds.), *Multidimensional Approaches Towards New Technology: Insights on Innovation, Patents and Competition*, Singapore: Springer.

Bhattacharjea, A., De, O. & Gouri, G. (2018). 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. doi: 10.1007/s11151-018-9641-0.

Bhattacharjea, A., The Enforcement of Indian Competition Law: Administrative or Regulatory?, in D. Kapur & M. Khosla (eds.), *Regulation in India: Design, Capacity, Performance*. Oxford: Hart Publishing.

Banerji, A., Chowdhury, S., H. De Groote, Meenakshi, J.V., J. Haleegoah and M. Ewool. (2018). Eliciting willingness-to-pay through multiple experimental procedures: evidence from lab-in-the-field in rural Ghana. *Canadian Journal of Agricultural Economics*, 66(2), 231-254.

Dua, P. & Garg, N.K. (Forthcoming). Determinants of Labour Productivity: Comparison between Developing and Developed Countries of Asia-Pacific, *Pacific Economic Review*.

Dua, P. & Suri, R. (Forthcoming). 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*.

Gupta, S. & Saksena, S. & Baris, Omer F., 2019. Environmental enforcement and compliance in developing countries: Evidence from India, *World Development*, 117:313-327.

Kumar, S. and Prabhakar, P. (Forthcoming). Industrial Energy Prices and Export Competitiveness: Evidence from India. *Environmental Economics and Policy Studies*.

Kumar, S. and Jain, R. K. (2019). Carbon-sensitive Meta-Productivity Growth and Technological Gap: An Empirical Analysis of Indian Thermal Power Sector. *Energy Economics*, vol. 81, pp. 104-116.

Maiti, D., Castellacci, F and Melchior, A. (2019). Digitalisation and Development: Issues for India and Beyond, *Springer*.

Maiti, D. and Avasthi, A. (2019). ICT Exposure and the level of Wellbeing and Progress: A cross country analysis'. *Social Indicators Research* (accepted)

Maiti, D. and Bhattacharyya, C. (2019). Informality, Enforcement and Growth. *Economic Modelling*, <https://www.sciencedirect.com/science/article/pii/S0264999318309325>

Maiti, D. (2019). Trade, Labor Share, and Productivity in India's Industries. *ADB Working Paper 926*. Tokyo: Asian Development Bank Institute. Available: <https://www.adb.org/publications/trade-labor-share-and-productivity-india-industries>.

Singh, P and Maiti, D. (2019). Sources of Finance, Innovation and Exportability: A Cross Country Study of Asia. *Journal of Asian Economic Integration*, 1(1): 1-24

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 and ADB Institute: [www.springer.com/gp/book/9789811378027](http://www.springer.com/gp/book/9789811378027)

Agarwal, A. and Maiti, D. (2019). ICT and Governance: A Cross Country Analysis. in Maiti, D., Melchior, A. and Castellacci, F (2019) *Digitalisation and Development: Issues for India and Beyond*, Springer

, P. and Maiti, D. (2019). ICT, Access to Finance and Exportability: A Cross Country Analysis. in Maiti, D., Melchior, A. and Castellacci, F (2019). *Digitalisation and Development: Issues for India and Beyond*, Springer.

Agarwal, A. and Maiti, D. (2019). Digitalization and Development in India: Myths and Realities. Sanyal, D. and Dutta, S. (eds.), *Impact of Digital Technologies*, Kunal Publishers, Delhi

Alan de Brauw, Patrick Eozenou, Daniel Gilligan, Christine Hotz, Kumar, Neha and Meenakshi, J.V. (2018). Biofortification, crop adoption and health information: Impact Pathways in Mozambique and Uganda. *American Journal of Agricultural Economics*. doi: 10.1093/ajae/aay005.

Mittal, N. and Meenakshi, J.V. (2018). Does the ICDS Improve the Quantity and Quality of Children's Diets? Some Evidence from Rural Bihar. *Journal of Development Studies*. DOI: 10.1080/00220388.2018.1487054

Varshney, D., Goel, D. and Meenakshi, J.V. (2018). The Impact of MGNREGA on Agricultural Outcomes and the Rural Labour Market: A Matched DID Approach. *The Indian Journal of Labour Economics*, 61: 589-621.

Schäfer, H-B and Singh R. (2018). Takings of Land by Self-interested Governments: Economic Analysis of Eminent Domain. *Journal of Law and Economics*, 2018, Vol 61(3), pp 427-459.

Singh R. (2018). Public-private Partnerships vs. Traditional Contracts for Highways: Comparison of cost and quality of roads. *Indian Economic Review*, 2018, Vol 2 pages 29-64.

Singh, R. (Forthcoming). Economic Efficiency. *Encyclopaedia of Law and Economics*, Springer.

Singh, R. (2018). Is Land a Bottleneck for Economic Development in India?. *Economic Theory and Policy amidst Global Discontent*, Eds Ananya Ghosh Dastidar, Rajeev Malhotra and Vivek Suneja, Taylor & Francis, , 2018.

Mukherjee, A. and Sinha, U. B. (2019). Export cartel and consumer welfare. *Review of International Economics*, 27, 91 – 105.

Bardhan, P., Mundle, S. and Somanathan, R (ed.) (2019). *EPW*, Volume 1: Period- 1949-1965. Orient Blackswan.

Baland, J.M. Somanathan, R. and Vandewalle, L. (2019). Socially Disadvantaged Groups and Micro nance in India. *Economic Development and Cultural Change*, 67(3), 537- 569.

Almas, I., Kjelsrud, A. and Somanathan, R. (2019). A behavior-based approach to the estimation of poverty in India. *Scandinavian Journal of Economics*, 121(1), 182-224.

Somanathan, R. (2019). Group Inequality in Democracies: Lessons from Cross-National Experiences. in Jean-Marie Baland, François Bourguignon, Jean-Philippe Platteau, and Thierry Verdier (eds.) *The Handbook of Economic Development and Institutions*, Princeton University Press.

#### **Journals :**

Indian Economic Review: Published in-house by the Department since 1952. Transferred production to Springer in 2017.

Number of Editors from the department: Four

Number of Department teachers serving as Editor(s)/Member(s) of Editorial Board of the Indian Economic Review – Eleven

#### **Seminars Organized**

Total number of seminar organised – 23

Shivi Kalra, State University of New York at Binghamton., Modeling Social Learning as Epidemics using Twitter Data 26th February 2019

Karna Basu, Hunter College, City University of New York. commitment as Extortion? 14th February 2019

Sourav Sarkar, Department of Economics, MIT Votes and Policies: Evidence from Close Elections in India. . (31st January 2019

Abhinash Borah, Ashoka University. Choice via Social Influence. (24th January 2019

Rajiv Sethi, Barnard College, Columbia University. The Geography of Lethal Force. 15th January 2019

Rodney Smith University of Minnesota General Equilibrium and Growth. 11<sup>th</sup>-14<sup>th</sup>, January 2019

Arijit Sen IIM Calcutta. Segmented Assimilation : A Minority's Dilemma. 19th November 2018

Pulapre Balakrishnan, Asoka University. Inflation Models and Inflation in India. 19th September 2018

Debopam Bhattacharya University of Cambridge (8th August 2018 at 3:00 PM). Empirical welfare analysis under social interactions.

Atanu Rakshit Nazarbayev University (2nd August 2018 at 3:00 PM). Bayesian Learning and Statistical Discrimination in the Market for Small Business Loans.

Ram Sewak Dubey, Montclair State University (26th July 2018 at 3:00 PM) Anonymous Representation under Uniform Improvement Pareto: A Characterization of Infinite Utility Domains.

Rohan Dutta, McGill University. (25th July 2018 at 3:00 PM). Peer Monitoring, Ostracism and the Internalization of Social Norms (with David K. Levine and Salvatore Modica).

Madhav S. Aney, Singapore Management University (26th April 2018 at 3:00 PM). Jobs for Justice(s).

Neha Khanna Department of Economics Binghamton University. (5th April 2018 at 3:00 PM) High Priority Violations and Intra-firm Pollution Substitution.

### **Conferences Organized**

UGC-SAP Sponsored Two-day National Workshop on "Growth and Productivity of Indian Economy: Contemporary Issues" 11-12 February 2019

Two-day ASIA-PACIFIC INNOVATION CONFERENCE 2018 on December 13-14 2018

Hosted by DEPARTMENT OF ECONOMICS, DELHI SCHOOL OF ECONOMICS

Winter School 2018

Winter School 2018 was held over the period December 10-13, 2018.

Public Lectures 2018-19

The Department of Economics organized a public lecture by Jean Pisani-Ferry on "Can Economic Multilateralism Survive?". This was held on January 7, 2019.

### **Seminar/Conference Presentations**

Bhattacharjea, Aditya

Presented a paper on "*Anti-cartel Enforcement: Some simple analytics and applications to India*", Keynote Address, National Conference on the Economics of Competition Law, Competition Commission of India, April 2018.

Presented a paper on “*Between the Law and Recovery: Penalties under India’s Competition Act*”, 1st UCL South Asian Competition Law Conference, University College London, November 2018.

Presented a paper on “*Labour Market Flexibility in Indian Industry*”, Symbiosis International University, Pune, February 2019.

Presented a paper on “*The Teaching of Economics*”, Panel Discussion, Ambedkar University Delhi, March 2019.

Presented a paper on “*Policy Transitions in the Industrial Sector in India*”, Diamond Jubilee Colloquium, IIT-Bombay, March 2019.

Dua, Pami

Presented a paper on “*Econometrics and Forecasting: Alchemy or Science*,” Workshop on Applications of STATA and Eviews Packages for Analysis of Socio-Economic Data, School of Social Sciences and Policy, Central University of South Bihar, Gaya, March 2019.

Memorial lecture on “*Synchronization of Cycles between U.S. and Emerging Economies*,” First D.R. Gadgil Memorial Lecture, International Conference on Finance and Applied Economics, Institute of Management Education Research & Training, Pune, February, 2019.

Inaugural address on “*Academic Integrity, Research Conduct and Ethics*,” Inaugural Address, International Conference on Finance and Applied Economics, Institute of Management Education Research & Training, Pune, February, 2019.

Presented a paper on “*Phillips Curve in a Data Rich Environment: An Application of FAVAR to Indian Inflation*”, Indian Institute of Foreign Trade, November 2018.

Maiti, Dibyendu

Delivered lectures ,DSE-CASE workshop (Delhi School of Economics), Copenhagen Business School, TIK, University of Oslo, St. Stephen College (Delhi University), Annual Workshop (Indian Institute of Technology Delhi), Indian Institute of Technology (Ropar).

Presented a paper in National conference on Indian Growth and Productivity, 11-12<sup>th</sup> February 2019, SAP-UGC sponsored (jointly with S. Kumar).

Gupta Shreekant presented a paper on “*The Stock of Human Capital: A Simple View*” at workshop on “*Air Pollution in India: Impacts on the Environmental Burden of Disease, the Economy and Human Capital*” at Boston College, Boston, USA, October 25-26, 2019.

Singh, Ram

Delivered a public Lecture on ‘Land Acquisition: The past, present and the future’, *Central University of Jammu*, Jammu, August 28, 2018.

Delivered keynote Lecture on ‘Are PPPs a better choice for procurement of Public Goods?’ *Maharshi Dayanand University*, Rohtak, March 11, 2019.

Delivered a Public Lecture on ‘Unemployment in India’, Delhi Public Library, Delhi, January 03, 2019.

Delivered a lecture on “Do Public Private Partnerships Deliver Better Outcomes?” Gokhale Institute of Politics and Economics, March 8, 2019 12th of October, 2018.

Delivered lecture on “Public Private Partnerships Vs Traditional Contracts: Empirical Analysis” *South Asian University*, October 12, 2018.

Sinha, Uday B presented a paper on “FDI and International Collusion” on March 14, 2019 at the Economic Research Unit, Indian Statistical Institute, Kolkata.

### **Other Inter – institutional collaboration**

The Department of Economics, Delhi School of Economics, is the India counterpart of the World Project LINK (initiated and guided by Nobel Laureate late Professor Lawrence Klein) which integrates independently developed national macro models into a global model for macroeconomic forecasting and policy analysis and is coordinated jointly by the UN Department of Economic and Social Affairs and the University of Toronto. In the initial phase V. Pandit and late K. Krishnamurty from the Institute of Economic Growth were actively associated with Project LINK. From the Department of Economics, K. Sundaram and Pami Dua were jointly involved in more recent years. The project is presently jointly managed by Pami Dua and N. R. Bhanumurthy, National Institute of Public Finance and Policy with advisory support from Professor V. Pandit.

### **Placement Details (Number and percentage of students placed)**

Number and percentage of students placed:- **113 & 91.87%**

Number of Companies visited for campus recruitment:- **22**

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

Ph.D. - 6

M.Phil - 1

### **Faculty Strength:**

**Permanent Faculty** - 18

**Adhoc** - 6

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## **GEOGRAPHY**

### **Major Activities and Achievement**

The Department of Geography leads in strengthening the discipline of geography in India through its emphasis on Interdisciplinary, Innovation and Inclusiveness. It has first rank among the departments of geography in country. Through its teaching and research activities, department aims for bridging the gap between the physical sciences and social sciences. Faculty members of the department have published in a range of internationally known, peer reviewed discipline centric and interdisciplinary journals. Prominent among these are Climate, Dynamics, Energies, Advances in Meteorology, Mountain Research and Development, Natural Hazards, Progress in Human Geography, International Journal of Geoheritage and several others. The department is known for its expertise in the area of remote sensing and a state of art GIS lab. The GIS laboratory is fully equipped with 30 computers, 3 Work Stations, Server, scanners, plotter, printers, latest GIS, Remote Sensing and statistical software like Arc View/Info GIS, ILWIS, MapInfo, IDRISI Andes, ERDAS Imagine, WMS, SPSS etc. The department is highly engaged in research collaboration with international partners in the various countries of the world. The department has installed weather stations, the first of its kind in any geography department in the country.

### **Honours/Distinctions**

R. B. Singh

First Indian and second Asian Secretary General and Treasurer of the International Geographical Union for 2018-22.

Elected as President of the Earth System Science Section of the Indian Science Congress Association for 2019-20.

Dr. Subhash Anand is executive member of Commission on Geoheritage, International Geographical Union.

Dr Netrananda is Awarded with Postdoctoral Fellowship by Japan Society for Promotion of Science (JSPS).

### **Publications**

Anand, Subhash and Malhotra, Vidhi. (2018). Sustainable Water Management, *World Focus*, 39(10), pp. 109- 113.

Anand, Subhash, Pandey, B.W., Kumar, H. and Ahmed S. (2018). Revisiting the Environmental Conditions in Seelampur J.J. Cluster, *The Horizon*, 9(2), pp. 122-131.

Anand, Subhash, Raman, E. and Rani, U. (2018). Role of Swachh Bharat Mission in Municipal Solid Waste Management in Patna, Bihar, *Advance in Environmental Waste Management & Recycling*, 1(1), pp. 1-5.

Anand, Subhash. (2018). Better Management of Agricultural Waste, *Energy Next*, Vol. 9 (1), pp. 21-23.

Basumatry, M. and Anand, Subhash (2018). Sustainable urban infrastructural development for smart city in Guwahati, India, *Human Geography Journal*, Vol. 25. pp. 54-65

De, A. and Nandi, R. (2018). “History at the Margins: Koch-Rajbanshis and their politics of resistance and rewriting of the past”, *Bangabidya, International Journal of Bengal Studies* 10: 253 -259.

Janmajaya, Mansi, Singh, R.B. and Dhaka, S.K. (2018). Detection of temperature variability and trends in the lower troposphere over Delhi: A study of Joint Influence of ENSO and Land use/ Land cover during 1980–2015, *Singapore Jl. Of Tropical Geography*.

Kim, R., Pathak, P., Xu, Y., Joe, W., Kumar, A., Venkataramanan, R., Subramanian, S. (2019). Micro-geographic targeting of precision public policy: an analysis of child sex ratio across 587,043 Census villages in India, 2011. *Health and Place* 57: 92-100.

Kumar, M., Singh, R. B., Pravesh, R., Kumar, P., Tripathi, D. K, Sahu, N. (2018). Urban Growth Dynamics and Modeling using Remote Sensing Data and Multivariate Statistical Techniques, *Current Science*, 114.

Kumar, P., Husain, A., Singh, R. B. et al. Impact of land cover change on land surface temperature: A case study of Spiti Valley, (2018) *J. Mt. Sci.*, 15: 1658. <https://doi.org/10.1007/s11629-018-4902-9>

Kumar, Pawan and Rai, S.C. (2018). Agricultural diversities and its sustainability in Sikkim Himalaya: An analysis. *Political Economic Journal of India*, 27(1), pp. 91-104, (ISSN: 0971-2097).

Mal, S., Mehta, M., Singh, R.B., Schickhoff, U., and Bisht, M. P S. (2019). “Recession and morphological changes of the debris-covered Milam Glacier in Gori Ganga valley, Central Himalaya, India, derived from satellite data”, *Frontiers in Environmental Science*”, <https://doi.org/10.3389/fenvs.2019.00042>.

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), pp. 203, Springer (Netherlands) (ISSN:0167-6369) <https://doi.org/10.1007/s10661-019-7347-x>.

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 (Netherlands), (ISSN:2523-8922) <https://doi.org/10.1007/s42398-019-00049-1>

Mondal, B. and Saha, A.K. (2018). Spatio-temporal analysis of mangrove loss in vulnerable islands of Sundarban World Heritage Site, India – In: Mansourian A, Pilesjö P, Harrie L & van Lammeren R (Eds.) Geospatial Technologies for All - Selected papers of the 21st AGILE Conference on Geographic Information Science, *Springer International*, 93-109.

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.

Panda, A and Sahu, N. (2018). Understanding the relation between seasonal climatic parameters and cropping pattern in Bolangir district of Odisha, *Journal of Water Resources and Land use Management*, Vol. 16(2).

Pandey, B. W. and Prasad, A. S. (2018). Slope Vulnerability, Mass Wasting and Hydrological Hazards in Himalaya: A Case Study of Alaknanda Basin, Uttarakhand *Terrae Didactica*. 395-404.

Gautam, P. and Anand, Subhash (2018). Flash Flood and its Mitigation: A Case Study of Almora, Uttarakhand, India, *Journal of Environmental Hazards*, I (1), 1-7.

Rai, S.C. and Kumar, M. (2018). Resource Use and Conservation of Kabartal Wetland Ecosystem, Bihar. *National Geographical Journal of India*, 64(1-2), 104-110.

Sengupta, S., Sarkar, D. U. and Sen, Anjan. (2018). Re-inventing Household Shopping Patterns and Buying Roles: Exploring the 'New Women' in Urban India. *Akademios*, Vol.(XII), 263-284.

Singh B.V. R. and Sen, Anjan. (2018). Geo-Spatial Mapping of Land Use and Land Cover Changes in the Core and Periphery Area of Ranthambore Tiger Reserve, Rajasthan, India, 1975-2015. *Annals of Valahia University of Targoviste. Geographical Series*, 18 (1), 62-67.

Jamal, S. and Sen, Anjan (2018.) "Prospect of Faridabad as a Smart City: A Review" in Vishwa Raj Sharma and Chandrakanta (eds.) *Making Cities Resilient*, Springer, Chapter 4, pp. 39-50.

Rajput, S., Arora, K., Mathur R. and Pandey, B. W. (2019). Environmental Psychology and Health Care Cost: Understanding the Well-Being Level of Delhi Residents. In Sharma V., Chandrakanta (eds) *Making Cities Resilient. The Urban Book Series, Cham*. Springer. DOI [https://doi.org/10.1007/978-3-319-94932-1\\_14](https://doi.org/10.1007/978-3-319-94932-1_14).

Sengupta, S. and Sen, Anjan. (2018). "Emergence of 'New Women' in Urban India: Exploring the Changes in Buying Roles and Media Portrayal in the Wake of Globalization" in Mahmoud Masaeli and Monica Prabhakar (eds.) *India as a Model for Global Development*, Cambridge Scholars Publishing, New Castle upon Tyne, Chapter 12, pp. 183-202.

Singh, R. B., Anand, S., Saluja, V. (2018). "Low Carbon Resilient Delhi Megacity for Sustainable Future Earth", Himiyama, Y. (ed.) *Exploring Sustainable Land use in Monsoon Asia*, Springer, Singapore, pp. 137-155.

Mal, Suraj, Singh, R.B. and Huggel, Christian. (2018). *Climate Change, Extreme Events and Disaster Risk Reduction*, Springer, Switzerland

Rai, S.C. (2019) *Geoenvironment of Manipur*. Ane Book Pvt. Ltd.,

## **Journals**

### **Number of Department faculty members serving as Editor(s)/Member(s) of Editorial Board-3**

#### **Conferences/Seminars**

Anand, Subhash

Co-chaired a session "Role of Women, Politics in Food Security and Nutrition" in International Conference on Global water Crisis: Agriculture and Food Security in the Era of Climate Change, Aligarh Muslim University, Aligarh, 1-3, December, 2018.

Chaired a session " Agriculture Development , Forestry and Biotechnology" in IGU – India, Conference on Climate Change, Natural Disaster and Sustainable Development, Govt. Post Graduate college, Panchkula, Haryana, 22-24, February, 2019.

Co-chaired a session “SWAT Model” in IGU – India, Conference on Climate Change, Natural Disaster and Sustainable Development, Govt. Post Graduate College, Panchkula, Haryana, 22- 24, February, 2019.

a paper on “Geoheritage and Geoparks in India: Need for Promotion and Development”, International Conference on National Parks, Beijing Normal University, Beijing, China, 9-10 October, 2018.

Delivered a lecture “Urban and Peri Urban Agriculture in National Capital Region”, in HINDAS, Hiroshima University, Japan, 1- 2 March, 2019.

Bhairannavar, Kiran

Presented a paper “Contemporary Urban Landscapes and Heritage Gardens: The Case of Sundar Nursery’, Delhi’, IGU Thematic Conference: Practical Geography and XII Century Challenges, Moscow, Russia, 4-6 June, 2018.

Presented a paper “Uneasy relationship: Heritage landscapes and Community Identities in Delhi, India” presented in ‘Oral History Association of India Conference’, Ambedkar University Delhi, 1-2 February 2019.

Presented a paper “Unfurling Agenda for Geographical Research on Sexualities in India: Some reflections and Future Directions” in ‘40<sup>th</sup> Indian Geographers Meet, 2019 & International Conference on Water, Sustainability, Livelihood and Climate Change’, Jawaharlal Nehru University, , 14-16 March, 2019.

De, Aparajita presented a paper on “From the Margins: The Rewriting and Self-Authoring of Koch-Rajbanshi History”, ECSAS, EHESS, Paris, 24–27 July, 2018.

Presented a paper on "Digital Spatiality: The Mapping and Reimagining of Colonial Calcutta in New Media", 40th IIG Meet & International Conference, Jawaharlal Nehru University, Delhi, 14 - 16 March, 2019.

Presented a paper on “Mapping Kolkata: Reimagining and Reliving its Colonial past in New Media”, Conference on Popular Imaginaries and Discourses on the Politics in India, IAS, Shimla, 8-9 February, 2019

Kumar, Pankaj

Delivered talk “Monitoring and Study on the Ecosystem of Central Asia: Results and Scientific practical Implications” organized by Tian Shan Hingh Mountain Research Center, Issyk-kul, Bishkek, Kyrgyzstan, 26-30, August, 2018.

Presented a paper “Seasonal and Spatial Characteristics of Urban Heat Island: A Case Study of Mumbai” in International Conference of Livable Cities : Transforming Sustainability and its Challenges organized by Department of Geography, Shaheed Bhagat Singh College, from 5 -7, February, 2018.

Pandey, B.W.

Presented a paper entitled “Assessing the Effectiveness of Non-Structural Measures of Flood Management: Case Study of Brahmaputra Valley in Assam.” In National Seminar on Climate Change Conclave. Department of Geography, Shaheed Bhagat Singh Eve. College, , 21-22, April, 2018.

Delivered a key note on “Disaster Risk Reduction (DRR) Planning and Management in Himalayan Context.” In First International Conference on Mass Disaster and Emergency Management. Organized by National Task Force for Disaster Management in Association with Kingsmead School, England and Dyal Singh College, , 20-21, April, 2018.

Delivered a lecture on “Cloud Burst and Flash Flood in Kullu Valley, Himachal Pradesh” in Hi-Flo-DAT workshop in Department of Geography, Bath Spa University, U.K. 4-5 November, 2018.

Presented a paper “Impact Assessment of Flood Disaster: A Case Study of Kishanganj District, Bihar” (B. W. Pandey, Pushalal Ganesh) and Chaired a Technical Session on Economics of water system and impacts on water quality on Human Health. International Conference on Global Water Crisis: Agriculture, and



Food Security in the Era of Climate Change. Department of Geography, Aligarh Muslim University, Aligarh, 01-03, December, 2018.

Chaired a session "Social Dimensions in Geography." In International Conference on Society and Sustainability: An Interdisciplinary Approach, Department of Geography, Vivekananda College, Kolkata, West Bengal and The Eastern geographical Society, Bhubaneswar, Odisha, 12-13, January, 2019.

Presented a paper on "Urban Agricultural Land Use Planning for Delhi- Central National Capital region (CNCR) in 40<sup>th</sup> Indian Geographers Meet 2019 of Institute of Indian Geographers and National Conference on Water, Sustainability, Livelihood and Climate Change. CSRD Jawaharlal Nehru University, , 14-16, March, 2019.

Rai, S. C. presented a paper in 2018 China Conference held at Xi'an, China from 28-31 August, 2018.

Sen, Anjan

Presented a paper "Re-Imaging the Eternal City: Branding a Smart Identity for Varanasi in a Contemporary Globalized World" in Royal Geographical Society (RGS) Annual International Conference at Cardiff, United Kingdom, 2018

Presented a paper "Branding Delhi's Historic Urban Villages – The Recreation of Shahpur Jat Village" in American Association of Geographers (AAG) 115th Annual Meeting at Washington DC, USA, 2019.

Singh, R. B.

Delivered special lecture at the Indian Science Congress, Lovely Professional University, Jalandhar, Punjab, 3-6, January, 2019.

Delivered a special lecture in HINDAS Seminar at Hiroshima University, Japan 1-2 March, 2019.

#### **International MOUs signed**

UGC-UKIERI-III Project 2018-2020 on "(Hi-Flo-DAT): Indian Himalayan Flood Database, for Disaster Risk Reduction" between , India and University of Bath Spa, UK. Amount Sanctioned: Rs. 1533233/-

#### **Students under Exchange Programme:**

Inbound - 01

Outbound - 01

#### **Placement Details**

Many students were selected in group A in Union and State Public Service Commission and other organization jobs.

#### **Extension and Outreach Activities**

Interactions and Awareness with the Local Mountain Community in Alaknanda River Basin together with M. A., M. Phil. and Ph. D. students regarding Livelihood Security, Vulnerability, Ecological Restoration and Women Empowerment.

#### **Number of Ph.D/M.Phil awarded**

M. Phil - 19

Ph.D - 5

#### **Faculty Strength**

Permane - 13

### **Other Significant Information**

Prof. R.B. Singh, Chair of the UGC committee for preparing Learning Outcome based Curriculum Framework for undergraduate course in geography since July 2018.

Dr. Subhash Anand

Member of the UGC committee for preparing Learning Outcome based Curriculum Framework for undergraduate course in geography course since July 2018.

Prof. S.C. Rai

Member, Board of Management, Arunachal University of Studies, Namsai, Arunachal Pradesh, from August 2018 to August 2021.

Member, Board of Studies in Geography, Cluster University of Jammu, Jammu & Kashmir, since 11 March 2019 to 10 March, 2022.

Dr. B.W. Pandey, Advisory Board Member of International Journal of Interdisciplinary Research in Science, Society and Culture, (IJIRSCC) Guwahati, Assam. ISSN: (P) 2395-4335, (O) 2455-2909; Member of Editorial Board, Journal of Social Sciences, Guru Govind Singh Khalsa College of Women, Jhar Sahib, Ludhiana, Punjab; Member of Editorial Board Yearly Academic Journal of Kalindi College/

Dr. N. Sahu ,Member, Editorial Board Journal of Atmospheric Science Research ISSN: 2630-5119; Member, Editorial Board GEOGRAFI .

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## **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-one 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 2018-19 our faculty gave key note addresses in National and International fora; our Seminar Series hosted prominent international and national scholars. During 2018-19 the Department of History organised two workshops, one on Paleography and Codicology, another on 'The recent Historiography of the early Modern Islamic Empires', and ten seminars. We also organised two "Baitmaks" and three "Kitabkhana" discussion based events. Our History Research Scholars Forum organized the Seventh Annual "Research Students Conference" a national gathering of research students. Fifteen (15) PhD scholars and sixteen (16) M.Phil scholars successfully defended their respective dissertations in public viva voce examinations.

### **Honours/Distinctions**

Alavi, Seema

Ansari Memorial Lecture, Jamia Millia Islamiya;

Keynote address at ZMO Conference in Berlin, Germany

Arafath, P K Yasser. 2018. 5<sup>th</sup> Professor K V Krishna Ayyar Endowment Lecture, 'The Ocean between Empires: Body, Sexuality, and Language in Early Modern Calicut', 2018, Dec 23, K V Krishna Ayyar Heritage Trust, Calicut, Kerala.

Bawa, Seema. 2018. Presidential Address (Ancient India Section), *Heads from Haryana: Contextualized Reading of Sculptural remains from the Early Historical Period*, at the 3rd Session of the Haryana History Congress Gurgaon, 20th October 2018.

Dhar, Parul Pandya. 2019. Keynote address titled 'From Funan via Angkor: History, Memory, and Contemporary Imaginings of India-Cambodia Cultural Connections', at a National Seminar on "Early India and Cambodia: Avenues of Linkages" at the University of Calcutta, March 15

Farooqui, Amar. 2018. Keynote Address, 'A House for the Governor-General: Architecture, Splendour and the Colonial Capital City in British India', presented at International Seminar on 'Colonial Cities in Global Perspective', Saint-Louis, Senegal, December 2018

Gupta, Vikas. 2018. 'Historical Trajectory and Contemporary Politics of Public Education', Keynote Address delivered in the national seminar organized by DIET, Bageshwar, Uttarakhand on 14th and 15th November, 2018.

### **Publications**

Choudhary, M. (2019). *Transport and Tanda: Shifting Identities of the Banjaras*, Delhi: Manohar.

Gupta, C. (2017). *The Gender of Caste: Representing Dalits in Print*. Ranikhet: Permanent Black, in association with Ashoka University.

Jain, S. (2018). *Identity, Community and State: The Jains under the Mughals*, Delhi: Primus.

Kumar, S. (2019). *Sanskriti and Sambhavana*, Delhi: Ananya Publications

Sahu, B. P. and Kulke, H. (2018). *History of Pre-Colonial India: Issues and Debates*, New Delhi: Oxford University Press.

Singh, V. (2018). *Speaking Rivers: Environmental History of Mid-Ganga Flood Country, 1540-1885*, Delhi: Primus.

Books: *Co-Authored*

Gupta, C. & Sharma, M. (2018). *Contested Coastlines: Fisherfolk, Nations and Borders in South Asia*. New Delhi and London: Routledge (ISBN: 978-1-138-49759-7).

BOOKS: *Edited And Co-Edited*

Balachandran, A., Raman, B. & Pant, R. (Eds.). (2018). *Iterations of Law: Legal Histories from India*, Oxford University Press.

Farooqui, A., Varadarajan, L. & Manlekandathil, P. (Eds.). (2018). *India, Portugese and Maritime Interactions, vol. 1: Science, Economy and Urbanity*, Delhi: Primus.

Farooqui, A., Leela, V. & Manlekandathil, P. (Eds.).(2018) . *India, Portugese and Maritime Interactions, vol. 2: Religion, Language and Cultural Expressions*, Delhi: Primus.

Sahu, B. P. & Veluthat, K. (Eds.). (2018). *History and Theory: The Study of State, Institutions and the Making of History*, Delhi: Orient Blackswan .

Articles/Chapters In Books

Arafath, Y. (2018). Malabar Ulema in the Shafiite Cosmopolis, *Fitna, Piety and Resistance in the Age of Fasad: The Medieval History Journal*, 21(1). Sage, India.

Arafath, Y. (2018). Malayalam, Malabari, Arabi: *The Weak Counter-Models*', in Madhyamam Weekly, pp.36-49.

Arafath, Y. (2018). The Great Flood. *An Eco Critical Study of Arabi-Malayalam Literature : Mathrubhumi Weekly*, 45-62 (in Malayalam), republished in Shabu Kilithattil (ed), *Rain, Land and Human: The Book of Survival*, Kairali Books, Kerala, 2019.

Balachandran, A. (2018). How to Treat the Natives and Other Lessons from the Colonial Kitchen: *Goya Journal*. Retrieved from Journal <https://www.goyajournal.in/blog/culinary-jottings-for-madras>

Balachandran, A. (2018). Petition Town: Law, Custom, and Urban Space in Early Colonial South India. In A. Balachandran, B. Raman & R. Pant (Ed.), *Iterations of Law: Legal Histories from India*, Oxford University Press.

Balachandran, A. (2019). Petitions: *The City and the Early Colonial State in South India, Modern Asian Studies*, 53, March.

Bawa, S. (2018). Visualising the Rāmāyāna: Power, Redemption and Emotion in Early Narrative Sculptures (c. Fifth to Sixth Centuries CE), *Indian Historical Review*, 45(1), 92–123.

Bawa, S. (2018). Ratha Yātrā of Baṭuka Mahādeva at Chhatrari: Some Art Historical and Religious Enquiries, *Ethnologia Polona*, 38, 221-242.

Bawa, Seema. (2018). Power and Politics of Portraits, Icons and Hagiographic Images of Gandhi, *Economic and Political Weekly*, 53(5), 54-61.

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- Singh, V. L. (2019). Sacred and Profane in the religiosity of Brahmanical Banaras: Past to Present, *Journal of Historical Archaeology and Anthropological Sciences*.
- Singh, V. (2018). Intersectorality in the Governance of Inland Fisheries”, Synthesis Paper (multiple authors), *Ecology and Society* 23(2)
- Zou, D. V. (2019). Picturing a Region: A geographical history of British Assam. In N. Bhattacharya & J. Pachuau (Eds.), *Landscape, Culture and Belonging: Writing the History of Northeast India*(pp. 89-109), Cambridge, UK: Cambridge University Press.
- Zou, D. V. (2018) Vai phobia to Raj nostalgia: *Sahibs*, chiefs and commoners in colonial Lushai Hills” in L. Dzuwichu & M. Baruah (Eds.), *Modern Practices in North East India: History, Culture, Representation*(pp. 119-143), London & New York: Routledge.

**Research Projects: 2**

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 -- Weatherhead Initiative on Global History, Harvard University, Delhi University and others in The Global History Network

**Seminars Organised: 10**

Atul Bharadwaj, ICSSR, Institute of Chinese Studies: ‘India - America Relations (1942-62): Rooted in the Liberal International Order’, 22 February 2019.

Dilip Menon, University of Witwatersrand, Johannesburg: “Out of Time; India Africa and possible histories”, 18 September 2019.

Jan Lucassen, International Institute of Social History, Amsterdam, “Real wages in Northern India c. (1300) 1590-1875: a contribution to the Great Divergence debate”, 29 March 2019.

Malavika Kasturi, University of Toronto: “Gurus, Mathas and Politics in Nehruvian India; Swami Karpatri and the Ram Rajya Parishad”, 8 August 2019.

Mahesh Rangarajan, Asoka University: ‘At Nature's Edge: Longer Term History and the Global Possible’, 16 January 2019.

Nishikant Kolge, Centre for the Study of Developing Societies, Delhi: ‘Was Gandhi a ‘Champion of the Caste System’? Reflections on His Practice’, 6 March 2019.

Nandini-Bhattacharya Panda, Kolkata, Independent Scholar: “The Making And Breaking Of ‘Law’: Custom, Code And The Colonial State In Northeast India”, 27 March 2019.

Prasenjit Duara, Duke University: “Revisiting the Chinese World Order: Soft Power or the Imperialism of Nation-States”, 10 April 2019.

Samuel Wright, University of Chicago/Ahmedabad University: “The Manuscript Economy of Early Modern India”, 24 October 2019.

Vinay Lal, University of California, Los Angeles: “The Cultural Politics and Political Sociology of Indian “Land-Grabbing” in Ethiopia”, 1 August 2019.

**Conferences Organised: Nine (9)**

Four kinds of events were organised by the Department of History: 1) Conference; 2) Workshops; 3) Baithaks; 4) kitabkhanas

**CONFERENCES: Two (2)**

Chronologies and Connections and the Historiographies that sustain them, 2-3<sup>rd</sup> March 2019.

Seventh Research Scholars Conference: Sense and Sensibility, 11-13 March 2019

**WORKSHOPS: Two (2)**

21<sup>st</sup> December (Friday): Workshop 2:00 pm: “Recent Trends in the Historiography of the Early Modern Islamic Empires”

16, 20, 27<sup>th</sup> Feb, 3:00 pm: Reading Material Texts: A Paleography and Codicology Workshop

## **BAITHAKS: Two (2)**

5<sup>th</sup> November (Monday) 3:0 pm: Neeladri Bhattacharaya's (JNU) Baithak

For discussion in the *Baithak* Professor Bhattacharya had selected the following chapters from his recent book, *The Great Agrarian Conquest* and they are attached below: "Introduction"; Chapter 4: "The Power of Categories"; Chapter 7: "Beyond the Code"; Chapter 9: "Colonising the Commons".

10<sup>th</sup> January (Thursday), 3:30 pm: Akeel Bilgrami's (Columbia) *baithak* – the author will discuss his book, *Secularism, Identity, and Enchantment*.

## **KITABKHANAS: Three (3)**

31<sup>st</sup> October (Wednesday) 3:30 pm: Jorge Flores's Kitabkhana discussion of *Unwanted Neighbours: The Mughals, the Portuguese, and their Frontier Zones*.

The Speaker-Interlocutors for this event are:

1. Professor Sunil Kumar, Department of History, University of Delhi
2. Akash Chattopadhyaya, MPhil (Part 1), Department of History, University of Delhi

Sunil Kumar is one discussant – we need to identify the student discussant

14<sup>th</sup> November (Wednesday) 3:30 pm: Sumit Sarkar's *kitabkhana Essays of a Life Time*

The interlocutors for this event are:

Professor P.K Dutta teaches at Jawaharlal Nehru University.

Professor G. Arunima teaches at Jawaharlal Nehru University.

13<sup>th</sup> March (Wednesday): Kitabkhana – Ebba Koch

Discussion with Ebba Koch of her recent book: *The Mughal Empire from Jahangir to Shah Jahan: Art, Architecture, Politics, Law and Literature*, Bombay: Marg, 2019

The interlocutors for this event are:

- 1) Prof. Sunil Kumar, teaches at University of Delhi
- 2) Aakaash Awasthi, MPhil (Part 1), Department of History, University of Delhi

## **Seminar and Conference Presentations**

Alavi, Seema. 2019. 'Twin Seas', paper presented at conference organised by Cornell University in Doha, Qatar; 6<sup>th</sup> January.

Alavi, Seema. 2019. 'Handbook of Religion and Medicine', paper presented at Zurich University, Switzerland, 14th May.

Arafath, P K Yasser. 2019. Invited Public Lecture, 'The language of Intellectuals in the Indian Ocean: Warriors, Sufis, and the Early Firangis (1500-1700),' 2019, March 12, School of Liberal Studies, Azim Premji University, Bangalore, India

Arafath, P K Yasser. 2019. 'Disciplining Intimacy in the Indian Ocean: Moral Manuals in the Age of Fasad (C.1500-1600),' National Seminar on 'Conflict and Cooperation in Medieval India', 2019, Jan 29, Department of History, Aligarh Muslim University.

Arafath, P K Yasser. 2019. 'Islamic Philanthropy, Food Charity and Sartorial Imaginations: What is Muslim in the Muslim Middle Class?,' at International Workshop Globalisation and The Muslim Middle Class in India, 2019, March 26, Centre of Political Studies, JNU, New Delhi.



- Bawa, Seema. 2018. Art, Heritage and History, at Aryabhata College, 1st November 2018
- Bawa, Seema. 2018. Talk on Early Visuals from The Ramayana: Locating the Imagery at India International Centre, Indian Archaeology series, July 9, 2018
- Bawa, Seema. 2019. Panelist on Panel 'Masculinity and Femininity at Kamla Nehru College, 29th March 2019
- Bawa, Seema. 2019. 'The Iconography of Gandhi: Constructing the Canon' at a National Conference entitled "The Prescient Gandhi: Reviewing the Social, Political, Economic, Moral and Beyond" organized by NMML held at NMML on the 21st of February
- Bawa, Seema. 2019. Visual Narratives of the Ramayana; Art, History and Memory, at PGDAV College. 09 March 2019.
- Bawa, Seema. 2019. Visualizing Gandhi, Gandhi Study Circle, Sri Aurobindo College, 11th March.
- Bawa, Seema. 2019. The Art of, and for, the Wandering Ascetics: A study of Central Indian Cave sculptures at the 24th Conference of European Association of South Asian Archaeology at Naples, 2-6th July 2018
- Bawa, Seema. 2018. "Gender in Early Narratives in India" at Leipzig University, 25th June 2018.
- Deshpande, Anirudh. 2019. Gandhi, Nehru And Bose: A Comparative Historical Assessment, Motilal Nehru College (E), 8 April, 2019.
- Deshpande, Anirudh. 2019. Interrogating Indian Nationalism: A Historical Perspective, Dyal Singh History Society, 11 April,.
- Deshpande, Anirudh. 2019. Is Military History Possible, O.P. Jindal Global University, History Society, 1 April,.
- Deshpande, Anirudh. 2018. The Prehistory Of Fascism: Europe In The Nineteenth Century, Hans Raj College History Society, 3 April,.
- Dhar, Parul Pandya. 2019. keynote address 'From Funan via Angkor: History, Memory, and Contemporary Imaginings of India-Cambodia Cultural Connections', at a National Seminar on "Early India and Cambodia: Avenues of Linkages" at the University of Calcutta, March 15, 2019.
- Dhar, Parul Pandya. 2019. keynote address titled 'From Funan via Angkor: History, Memory, and Contemporary Imaginings of India-Cambodia Cultural Connections', at a National Seminar on "Early India and Cambodia: Avenues of Linkages" at the University of Calcutta, March 15
- Farooqui, Amar. 2018. Keynote Address, 'A House for the Governor-General: Architecture, Splendour and the Colonial Capital City in British India', presented at International Seminar on 'Colonial Cities in Global Perspective', Saint-Louis, Senegal, December
- Farooqui, Amar. 2019. 'Imperial Motifs and Historical Time Zones: A New Capital for the British Indian Empire', paper presented at Centre of Advanced Study Workshop on 'Chronologies and Connections, and the Historiographies that Sustain Them', Department of History, University of Delhi, Delhi, March 2019.
- Govind, Rahul. 2019. "Empire: Sketching the Epistemic and Political Implications of an Event" [Invited Lecture], Centre for Comparative Politics and Political Theory, Jawaharlal Nehru University
- Gupta, Charu. 2019. 'Masculinity and Femininity', Invited Panelist at a Panel Discussion, History Department, Kamala Nehru College, University of Delhi. 29 March.
- Gupta Charu. 2019. Writing 'Gender': Reflections on Modern Indian Historiography. Keynote Lecture at a Workshop on 'Gender and History', Department of History and IQAC, Hansraj College, University of Delhi, 26 March.

Gupta, Charu. 2019. 'Writing 'Gender': Reflections on Modern Indian Historiography'. Keynote Lecture at a Workshop on 'Gender and History', Department of History and IQAC, Hansraj College, University of Delhi, 26 March.

Gupta, Charu. 2019. 'Unquiet Relations: Caste, Marriage and Sex in the Writings of Santram BA', Paper presented at the Annual Conference of the Department of English on 'Dalit Literature: Texts and Contexts', University of Delhi. 13-15 March.

Gupta, Charu. 2019. 'Pleasures and Poetics of Vernacular Sexology'. Invited Lecture, Department of History, Lady Shri Ram College for Women, University of Delhi. 12 March.

Gupta, Charu. 2019. 'Fantasy, Fitness, Freedom: Muscular Nationalism and Vernacular Travelogues'. Invited Seminar Talk, Centre for Comparative Politics and Political Theory, JNU, Delhi. 8 March.

Gupta, Charu. 2019. 'Contentions of Caste'. Invited Lecture at Litmus 2019, Conference on 'Indian Experiences of Conflict and Transformation', organised by English Literary Association, LSR, University of Delhi. 1-2 March.

Gupta, Charu. 2019. 'Subaltern Sexualities and Vernacular Archives'. Invited Lecture in a Symposium on 'Subaltern Studies and Beyond', organized by Department of History, Daulat Ram College, University of Delhi. 13 February.

Gupta, Charu. 2019. 'Atikraman karti Anrangta: Antarjatiya Vivah, Sex aur Santram' [Transgressive Intimacy: Inter-Caste Marriage, Sex and Santram] [in Hindi]. Invited Lecture in 'Samvad Vyakhyan Shrankhla' [Dialogue Lecture Series], CWDS, Delhi. 17 January.

Gupta, Charu. 2018. 'Fragmentary Histories, Subaltern Sexualities and Vernacular Archives'. Invited Talk, The History Society, Indraprastha College for Women, University of Delhi. 26 October.

Gupta, Charu. 2018. 'Destabilising the Sexual: Translating and Transforming Sexology in the Vernacular'. Invited Seminar Lecture, Centre for Women's Studies, JNU, Delhi. 28 August.

Gupta, Vikas. 2018. 'Colonial Transformations in Teacher Practices, Historic Critics and Contemporary Relevance', Lecture delivered in the National Symposium on 'History Education: Perspectives and Possibilities from the Field', Organized by the Department of Education (CIE), University of Delhi, on Saturday, 24th March, 2018.

Gupta, Vikas. 2018. 'Historical Trajectory and Contemporary Politics of Public Education', Keynote Address delivered in the national seminar organized by DIET, Bageshwar, Uttarakhand on 14th and 15th November, 2018.

Gupta, Vikas. 2019. 'Nav Udaarvaad kaa prabhaav: badhti vishamta aur garibon se door hoti hue shiksha', 7th Professor Vinodanand Singh Memorial Lecture, organized by Professor Vinodanand Singh Smriti Samiti, Muzzafarpur, Bihar, 15th June 2019.

Gupta, Vikas. 2019. 'A critical look at the New Education Policy: Interaction with Scientists', talk organized by Raman Research Institute (RRI), Bangaluru, 8th January 2019.

Gupta, Vikas. 2019. 'Education and the Praxis of Social Emancipation in Phule's work', Paper presented at the National Symposium-cum-Workshop on 'Critical Pedagogy and

Govind, Rahul. 2019 "Between the Jewish Question and the Global Question: Inheriting, Differentiating and Characterizing the Moral and the Legal in Hume, Kant and the 18th century" [Invited Lecture], Smith College, USA.

Gupta, Charu. 2018. 'Masculine Vernacular Histories of Travel in Colonial India: Writings of Satyadev Parivrajak', Paper presented in a panel on 'Literary Sentiments: Gender and the Vernacular in Colonial and

Postcolonial South Asia', 25th European Conference on South Asian Studies (ECSAS), Paris, France. 24-27 July.

Gupta, Charu. 2018. 'Voicing Self, Penning Travel: Masculine Vernacular Life Writing of Satyadev Parivrajak', Paper presented in a panel on 'Public Lives, Private Memories: Travel and Vernacular Life Writing in Asia', International Conference of AAS-In-Asia, India Habitat Centre, New Delhi. 5-8 July.

Gupta, Charu. 2018. 'Mistresses and Servants: Literary and Legal Sketches in Early 20th Century Uttar Pradesh', Paper presented in the 2nd International Conference on 'Servants' Pasts', Humboldt University, Berlin, Germany. 11-13 April.

Hasan, Farhat. 2018. 'The Merchant Firms and the Legal Order in Early Modern South Asia: State, Corporate Groups, and Legal Pluralism, presented at the conference on 'The Social Life of Commercial Trust: Comparative Historical Perspectives from Asia, Africa and Europe, 1600-1950' (organized by Nantes Institute for Advanced Study, Nantes, France, 20-22 February, 2018).

Hasan, Farhat. 2018. 'Indo-Persian Epistemology in the Early Modern Period', read at the conference on 'Concepts and canvas of Knowledge: Asian Studies from Pre-Modern to Modern Times'. (Organized by the Department of History, Visva Bharti University, Shantiniketan, February 20-22, 2018)

Jain, Shalin. 2019. "Environmental Movements based on Gandhian Methods", in the Inter-Disciplinary National Conference cum Workshop on Gandhian Vision and Environment, organized by Aditi Mahavidyalaya, University of Delhi held at Gandhi Bhawan, University of Delhi, 6th March, 2019.

Jain, Shalin. 2019. "The Language of Prejudice" in the National Seminar on Dynamics of Language in History organized by Department of History, Shivaji College, University of Delhi, 1st March.

Jain, Shalin. 2018. "Delhi Jo Ek Shahar Tha: Vyapar aur Bazaar Ka" in the National Seminar The Changing Cultural Narratives of Delhi : Through the Ages, organized by the Department of History, Rajdhani College, University of Delhi, 19-21 March.

Jain, Shalin. 2018. "The City of Parshava: Banaras in Jain Narratives" in the National Seminar on the 'The Holy' City of Banaras Through the Ages, organized by the Department of History, Shyamlal College, University of Delhi, 12-13 March.

Jafri, S.Z.H. 2018. 'Education and Transmission of Knowledge under the Muslim Rulers in India', Valedictory address delivered at the All India History Summit, Nehru Memorial Museum and Library, Teen Murti Bhawan, New Delhi, 30th Sept, 2018.

Jafri, S.Z.H. 2018. 'The Evolution of 'Pluralistic Cultural Ethos' in Indus Enclave and Panjab Upto the Colonial Times' paper presented in an International Conference organized by Society of Asian Civilization of Pakistan on Pakistan's Pluralistic Cultural values of peace, tolerance and love, Islamabad, Pakistan, 5th July 2018.

Jafri, S.Z.H. 2019. 'Chronologies and Connections in the Upper Gangetic Valley: A Study of some aspects of Awadh region during India's Medieval Past', presented in Chronologies and Connections, and the Historiographies that sustain them, an International Conference organized by Centre of Advanced Study, Department of History, Delhi University, 2-3 March 2019

Jafri, S.Z.H. 2019. 'Conflict and Cooperation in Pre Colonial Awadh', in National Seminar on Conflict and Cooperation in Medieval India, 28th -30th January 2019, CAS, Department of History, Aligarh

Jafri, S.Z.H. 2019. 'Indigenous Centers of the Transmission of Knowledge and the British Colonial Policies', paper presented in the Department of History, Faculty of Social Sciences, Maulana Azad National Urdu University, Hyderabad, 22nd Feb, 2019.

Jafri, S.Z.H. 2019. 'Knowledge and its Transmission during India's medieval past', paper presented in the Department of History, Faculty of Social Sciences, Maulana Azad National Urdu University, Hyderabad, 22nd, Feb, 2019.

Jafri, S.Z.H. 2019. Chaired and moderated a panel discussion on, 'Mapping the Marginalized in South Asia with Special Reference to the Legacy of Guru Nanak Dev', organized during the sixth annual session of the South Asian History Congress, Department of History, Panjabi University, Patiala, 2nd Feb, 2019.

Jafri, S.Z.H. 2019. Chishti Sufis and pre-existing 'cultural word, of Upper Gangetic Valley, Paper Presented in a conference organized by Internal quality assurance cell of A.R.S.D collage University of Delhi on Indian Vernacular Literature; Premakhyan, 29th Jan 2019.

Jain, Shalin. 2018. "Delhi Jo Ek Shahar Tha: Vyapar aur Bazaar Ka" in the National Seminar The Changing Cultural Narratives of Delhi : Through the Ages, organized by the Department of History, Rajdhani College, University of Delhi, 19-21 March, 2018.

Jain, Shalin. 2018. "The City of Parshava: Banaras in Jain Narratives" in the National Seminar on the 'The Holy' City of Banaras Through the Ages, organized by the Department of History, Shyamlal College, University of Delhi, 12-13 March,

Jain, Shalin. 2019. "Environmental Movements based on Gandhian Methods", in the Inter-Disciplinary National Conference cum Workshop on Gandhian Vision and Environment, organized by Aditi Mahavidyalaya, University of Delhi held at Gandhi Bhawan, University of Delhi, 6th March, 2019.

Jain, Shalin. 2019. "The Language of Prejudice" in the National Seminar on Dynamics of Language in History organized by Department of History, Shivaji College, University of Delhi, 1st March

Jain, Shalin. 2018. "Constructing Knowledge and Circulating Perceptions: The Jain Vigyaptipatras in Early Modern South Asia" in International Conference on Literary Circulations in South Asia: Producing, Translating, Preserving Texts at the French Institute of Pondicherry, Pondicherry, 20-23 August

Kumar, Sunil. 2018. Panel Discussant. In the Conference on 'Religion and Urbanity, Theorising Mutual Formations', University of Erfurt, 6-8th November.

Kumar, Sajjan. 1st Oct. 2018 "The Concept and Methods of Conservation of Historical Monuments in India" at Aggarwal College, Ballabgarh (Haryana).

Kumar, Sajjan. 20th-21st Oct. 2018 Participated and presented a paper at 3rd Session of Haryana History Congress at Starex University, Gurugram (Haryana).

Kumar, Sajjan. 27th -28th Sep. 2018. Participated in two days' National Workshop on 'Geospatial technology for Archaeology' organized by Haryana Space Application Centre (HARSAC) collaboration with Department of Archaeology and Museums, Govt. of Haryana, at Chandigarh.

Kumar, Sunil, 2018. "The Tyranny of Meta-narratives: Re-reading the History of Sultanate Delhi" A Conference in Honour of for Romila Thapar: Questioning Paradigms, Constructing Histories, Delhi, India International Centre

Kumar, Surendra. 2018. "Context of Struggle for Equality in India" invited by Dr. Ambedkar Anushucit Jati Adhikari-Karamchari Association(AJAK), Churu, Rajasthan on 4/11/2018

Kumar, Surendra. 2018. "Issues of Empowerment: Challenges and Opportunity" Meghwansiya Samaj Chetna Sansthan Jhunjhunu( Rajasthan) ( Rajasthan) on 14/10/2018

Kumar, Surendra. 2018. "Limitations of Empowerment and Remedies Against Discrimination" Annual Meeting of Rajasthan Shikshak Sangh (Ambedkar) Jhunjhunu (Rajasthan) on 29/9/18

Kumar, Surendra. 2018. "Understanding UGC Guidelines, 2006 and 200 point Roster in National Conference" Mahavidhyalaya Anushucit Jati & Janjati Shikshak Sangh on 1/5/2018

- Kumar, Surendra. 2019. "Contextualization of Dialogue and Samvand" in 'Yuva Samvand' organized by Research Scholars Association, Rajasthan University, Jaipur on 6/3/2019.
- Mishra, Sanghamitra. 2018. Lecture titled 'Ordering and Orienting Spaces: the Ecology of British Imperialism', St Stephen's College, University of Delhi, 21 February 2018.
- Mishra, Sanghamitra. 2019. Lecture titled 'Political Economy and the State: Staging and Embedding Space' in a panel discussion titled Thinking Space in/through History, Department of History, Miranda House College, University of Delhi, 5th March 2019.
- Mishra, Sanghamitra. 2019. Lecture titled 'The Ecology of British Imperialism: Ordering and Orienting Spaces in Frontiers', Department of History, Hansraj College, University of Delhi, 11th February, 2019.
- Mishra, Sanghamitra. 2019. Phule's Writings', organized by the Department of Education (CIE), Delhi University (Under the aegis of IASE, MHRD), 7th-8th March 2019.
- Rai, Santosh Kumar. 2019. "Locating Popular Culture in Indian History: Possibilities and Constraints", in the Symposium on Popular Culture, Janki Devi Memorial College, University of Delhi, 28th February.
- Rai, Santosh Kumar. 2019. "Environmental Gandhi: Khadi and Small Scale Industries" in the Inter-Disciplinary National Conference cum Workshop on Gandhian Vision and Environment organized by AditiMahavidyalaya, University of Delhi held at Gandhi Bhawan, University of Delhi, 6th March,
- Rai, Santosh Kumar. 2019. "Humanizing Modernity and Revitalizing Tradition: Life, Times and Ideas of Mahatma Gandhi", in the National Conference entitled The Prescient Gandhi: Reviewing the Social, Political, Economic, Moral and Beyond, organized by NMML at Nehru Memorial Museum and Library, New Delhi, 21th February.
- Rai, Santosh Kumar. 2019. "Gandhiji: A Non-Violent Modernist and His Relevance in Our Times", in a Two days National Seminar on 'Gandhian Thought and Polity: Contemporary Society', National Archives of India, New Delhi, 4-5 October, 2018. National Seminar on 'Gandhian Thought and Polity: Contemporary Society', National Archives of India, New Delhi, 4-5 October, 2018.
- Rai, Santosh Kumar. 2019. "Relevance of Gandhiji: A Journey to Mahatmahood" in the Interdisciplinary Seminar on Relevance of Gandhi in Contemporary Times organized by Department of History, Satyawati College (Evening), University of Delhi, 7th March, 2019.
- Rai, Santosh Kumar. 2019. Paper presentation, "Revitalising Communities of Skill in the Age of Capitalism: Handloom Weavers in Twentieth Century United Provinces, India," in the Invited International Conference, Taking 'skill' seriously: Towards a history of occupational training in modern India, Jointly organized by M. S. Merian - R. Tagore International Centre for Advanced Studies "Metamorphoses of the Political" (ICAS-MP) funded by the German Federal Ministry of Education and Research and the Public Policy and Management Group (PPM) in the Indian Institute of Management – Calcutta (IIM-C), 30-31 March 2019.
- Rai, Santosh Kumar. 2019. "Locating Popular Culture in Indian History: Possibilities and Constraints", in the Symposium on Popular Culture, Janki Devi Memorial College, University of Delhi, 28th February 2019.
- Rai, Santosh K. 2019. "Revitalising Communities of Skill in the Age of Capitalism: Handloom Weavers in Twentieth Century United Provinces, India," in the Invited International Conference, Taking 'skill' seriously: Towards a history of occupational training in modern India, Jointly organized by M. S. Merian - R. Tagore International Centre for Advanced Studies "Metamorphoses of the Political" (ICAS-MP) funded by the German Federal Ministry of Education and Research and the Public Policy and Management Group (PPM) in the Indian Institute of Management – Calcutta (IIM-C), 30-31 March 2019.

Singh, Vipul. 2019. Workshop paper “Flag-Post in the Indian Ocean: Peopling of the Andaman Islands; 1780’s to 1900’s”, in the Workshop Migrations, Crossings, Unintended Destinations: Ecological Transfers across the Indian Ocean 1850-1920 at Rachel Carson Center, Munich (Germany)

Singh, Vipul. 2018. Workshop paper “Flood, Avulsion and Governance: The Ganga River in the Nineteenth Century”, John Hope Franklin Center at Duke University, Duke University, Durham.

Shah, Shalini, 2019. ‘Engendering Sexuality and Desire in the Sanskritic Tradition’, at the Seminar on Performing Bodies in the Arts, Painting, Music and Literature, Department of History, Ramjas College, February 22

Shah, Shalini. 2018. ‘Engendering the Material Body: A Study of Sanskrit Texts’ at Centenary seminar on ‘Writing Social and Economic History: Issues and Perspectives’, Department of AIHC, University of Calcutta, March 8.

Shah, Shalini. 2019. ‘Lectures on Ancient Indian History’, under UGC SAP-DRS-II Programme, Department of History, University of Dibrugarh, March 21-23.

Shah, Shalini. 2019. Engendering Sexuality and Desire in the Sanskritic Tradition’, at the Seminar on Performing Bodies in the Arts, Painting, Music and Literature, Department of History, Ramjas College, February 22.

Yadav. Sonu. 2018. “Depressed castes and the ideology of Arya Samaj in South-East Punjab c.1900 to 1947” at 3rd Session of Haryana History Congress at Starex University, Gurugram (Haryana). 20th-21st Oct.

#### **Number of M.Phil/Phds**

Ph.D. - 15

M.Phil. - 16

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### **POLITICAL SCIENCE**

#### **Major Activities and Achievement**

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.

Two inter-institutional collaboration projects along with various research projects sponsored by different national/international organizations and have been undertaken by various faculty members of the department. The Department hosted two international seminars, nine national seminars, two ICSSR Research Projects workshops, seven departmental weekly seminars, six visiting-fellow lectures and one work-in-progress workshop by Ph.D. students. The Department has launched a series of research groups and network in collaboration with college teachers to carry out research in emerging areas. These include: South East Asia Research Group, Intellectual History Research Group, Research Network on Feminist Engagements with Law and the State, Peace and Conflict Studies Research Group. The Department launched a drive with the help of college teachers to prepare and collate teaching materials in Hindi language for all Under Graduate courses.

## **Honor's /Distinctions**

Prof. Navnita Chadha Behera

Elected as First Co-Chair, for the ISA Section on 'South Asia in the World Politics,' created at International Studies Association Convention in March 2016, and re-elected as the Co-Chair for the same section in 2017.

Elected as the Vice-President for the ISA in March 2019.

Prof. Sunil K Choudhary

Prof G Ram Reddy IPSA National Award, 2018, Indian Political Science Association.

Member, (VC, JNU, Nomine) Academic Council, LBSNAA, Mussoorie, Uttarakhand, (2019-2021).

Member, Vice- Chancellor's Nomine on 'Special Centre for National Security Studies' JNU, , (15/12/2018 - 15/12/2021).

UGC Nominee, Local Programme and Management Committee (LPPMC) in Human Resource Development Centre, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP (2018-2020).

Member, Academic Council, Jawaharlal Nehru University (as VC Nominee) , (May 2018-2021).

## **Publications**

Acharya, A. (2019). Constitutionalizing rights, negotiating difference: the Indian experiment. In Bijayalaxmi Nanda and Nupur Ray (Eds.), *Discourse on Rights in India: Debates and Dilemmas*, Routledge.

Choudhary, S. K. (2018). *The Changing Face of Parties and Party Systems: A Study of Israel and India*. Springer and Palgrave Macmillan.

Chowdhory, N. (2018). *Refugees, Citizenship and Belonging in South Asia- Contested Terrains*. Springer Nature Singapore Pvt. Ltd.

Chowdhory, N. (2019). *Deterritorialised Identity and Transborder Movement in South Asia*", Springer Nature Singapore Pvt. Ltd.

Giri S. (2018). The Buddhist Ineffable Self and a Possible Indian Political Subject, Special Section: Political Theology in India, *Political Theology*, 19 (8): 734-750.

Ragi, S. K. (2019). Intended Illegal infiltration or Compelled Migration: Debates on Settlement of Rohingya Muslims in India. In Ratua, Steven. *The Palgrave Handbook on Ethnicity*, Springer, New Zealand.

Saxena, R. (2018). *Gendering Federalism in India*. Forum of Federations, Ottawa.

Saxena, R. (2018). The Indian Supreme Court and Federalism: Federalism and Regionalism.

Saxena, R. (2018). Asymmetrical Federalism in India: Promoting Secession or Accommodating Diversity? in Revisiting Unity and Diversity in Federal Countries: Changing Concepts, Reform Proposals and New Institutional Realities Edited by Alain-G Gagnon and Michael Burgess.

Singh, S. (2018). Decentralisation, Autonomy and Power: State and Politics of Forest Governance. In Vidhu Verma (Ed.), *The State in India: Ideas, Norms & Politics*, Orient Blackswan, Delhi.

Singh, S. P. (2018). *Politics for a New India: A Nationalistic Perspective*. Rupa Publications India Pvt. Ltd.

Singh, U. K. (2018). Regulating the Electoral Domain: The Election Commission of India. *Indian Journal of Public Administration*, 64 (13).

Tiwary B. K. (2018). *India's Foreign Policy*, Delhi: Wisdom Publications.

## Research Projects

UGC/CAS/SAP, Democracy, Norms and Institutions Navnita C. Behera (as Head of the Department & CAS/SAP Coordinator) Sunil Choudhary as Deputy Coordinator.

ICSSR The Politics of Autonomous Migration: A study of Indian Middle-class Women Dr. Nasreen Chowdhory.

ICSSR, Education as a Site of Exclusion: A Study of Indian Universities, N. Sukumar.

ICSSR, Social Psychology of marginalization and exclusion: A Case Study of Dom and Musahar community in Bihar, Sangit K. Ragi (along with G.P. Thakur, CARDC)

ICSSR, Popular Imaginaries and Discourses on Politics in India: Exploring Cultural Narratives as Alternative Sites of Knowledge Construction, Sanjeev Kumar H.M.

ICSSR, Democratization of State in South Asia, Veena Kukreja.

## Seminars /Conferences Organised -10

Politics and Public Policy, 2<sup>nd</sup> International conference of the India Public Policy Network in collaboration with the Department of Political Science, 5-6 February, 2019.

Electoral Dynamics and Contours of Party System: Run up to 2019, 1 - 2 March, 2019.

Revisiting Peace and Security in Contemporary World: Intervention from India, 11-12 May 2018.

Modinomics: Myth or Reality, 21<sup>st</sup> February, 2019.

State and Society in Africa, 26<sup>th</sup> February, 2019.

Nation, Social Policy and Excluded: Unfolding the Multiples Sites of Exclusion, 28 Feb 2019.

Development: Concerns and Challenges in Contemporary Discourse, 5<sup>th</sup> March, 2019.

Theory and Practice of Democracy in India: Challenges and Prospects, 6<sup>th</sup> March, 2019.

Continuity and Change in Indian Electoral Behavior, 6<sup>th</sup> March, 2019.

Mapping India's Foreign Policy: Regional and Global Dynamics, 7<sup>th</sup> March 2019.

Problematizing International Relations: Feminist Perspectives, 8<sup>th</sup> March, 2019.

## Paper Presentation

Ashok Acharya

'*Citizenship, Ethnicity and Nation-State in North East India*' Keynote Address, ICSSR-NERC Annual Social Science Congress, Tezpur University, March 24-25, 2019.

'*Human Dignity, Relationality and the Cosmopolitan Ideal: Justice from a Global South Perspective*' in the International Conference on Ethical Consensus and Human Moral Development, Southeast University, Nanjing, China, Dec. 1, 2018 and the Jiangnan Context Forum, Wuxi, China, December 2-4, 2018.

N. Sukumar

"*Reservations and Social Justice*", Reservation, Representation and Social Justice, National Seminar organized by Faculty of Social Sciences, Osmania University, Hyderabad, 22nd and 23rd March, 2019.

"*Representing Marginality: Rosters in Reservation*", National Seminar on 'Marginalization and Marginality in India with a focus on North Eastern Region: Multiple Contexts for State Intervention' organized by Rajiv Gandhi National Institute of Youth Development (RGNIYD), Ministry of Youth



Affairs & Sports (Government of India), Dr. Ambedkar Chair-Tezpur University and Omeo Kumar Das Institute of Social Change & Development, Guwahati, 15-16th March 2019.

*“Globalization and Dalits”*, Seminar on ‘Indian Economy and Dalits’, Andhra University and Forum for Dalit Studies, Vishakhapatnam, Andhra Pradesh, 6th December 2018.

“Whither Constitutional Day”, Seminar on ‘The Importance of the Indian Constitution and the Need to Protect it’, organized by Centre for Dalit Studies, Department of English, , 26th November 2018.

*“Power and Transformation in Panchayats: A Reality Check”*, National Conference on Political Representation: Theory, Practice and Emerging Challenges in India, Indian Institute of Dalit Studies and Rosa Luxemburg Stiftung South Asia, , 23rd-24th August, 2018

Shri Prakash Singh

*“Importance of Sanskrit Literature in studies of political science”*, HRDC, Jawaharlal Nehru University, Department of Sanskrit on 16<sup>th</sup> February 2019

Sangit K. Ragi

*‘Antyodaya, Delivering Democracy’*, Canberra, Australia, February, 2019.

*‘Intended illegal Infiltration or Compelled Migration: Debates on Settlements of Rohingyas Muslims in India’*, 21-25 July 2018, Brisbane, Australia.

Ujjwal Kumar Singh

*‘Development Process and Coalition Government’*, presented in the National Seminar on ‘Coalition Politics in India: Boon or Bane’, organized by Sri Guru Nanak Dev Khalsa College, , 7th February 2019.

*‘RajneetikKaidi, Raj Kaidi and the Politics of Political sPrisonerhood in India’*, presented in the Research Colloquium of the Department of Sociology, Delhi School of Economics and Sociology, , 4 January 2019.

*‘Word’, ‘World’ and ‘Effect’: Studying the Sites of Law’*, presented at the UGC-CAS national seminar in Panjab University, Chandigarh, 27-28 September 2018.

*‘Is there a Colour of Terrorism: Religion, Law and Politics’*, presented at a National Conference on ‘Religion, Difference and Politics’, organised by the Centre for Political Studies, Jawaharlal Nehru University, Delhi, 19-20 March 2018.

Madhulika Banerjee

*“Knowledge at multiple locations”* in a National Seminar on *“Indian History- Multiple Locations”*, organised by the Department of History, Shivaji College, on Thursday-Friday, 5th-6th April 2018.

Rekha Saxena

Efficacy of campaigns & consequent electorates’ choices in Indian electioneering: a comparative study of electoral campaigns of BJP & Congress in 2014 & 2019 in International Conference (under CAS SAP Program) on “Electoral Dynamics and Contours of Party System: Run-up to 2019” 1st and 2nd March 2019 organized by Department of Political Science,

Courts and Federalism: Dialectics of Independence and Accountability in India and Nepal in an International Conference on Constitution of Nepal organized by School of law, Kathmandu university, Nepal, 11-13<sup>th</sup> August 2018.

Nasreen Chowdhory

Roundtable discussion on *The Asian Migration Scenario: NRC and Possibilities of Statelessness in Research Workshop on the State of Global Protection System on Refugees and Migrants*, November 25-28, Kolkata.

'*The Idea of Protection and India's Refugee Conundrum: A Conversation...*' Invited for panel discussion on Institutions, Immigrants and Populist Politics in International Conference on who are the people? Populism and populist movements, Calcutta Research Group and Rosa Luxemburg Shiftung, August 31-September 1.

"*Why Do People Move? Narratives of Enclave or 'New' Citizens in North Bengal in India.*" Panel: Refugeeeness and Precarity: A View from the Global South at IASFM17 held in University of Macedonia Thessaloniki, Greece, July 24 – 27, 2018.

"*The Reconciliation and Reconstruction in Post Conflict Sri Lanka: Question of Agency and Empowerment of the Former LTTE Female Combatants.*" Panel: Transitional Justice and Tamils in Sri Lanka, at IASFM17 held in University of Macedonia Thessaloniki, Greece, July 24 – 27, 2018. (Co-author with Shamna Hussein)

"*Precarity and Legal Conceptualisation of Rohingyas: A Dilemma of Citizenship.*" Panel: Statelessness, Precarity and Representation of Rohingya Refugees: South Asian Perspectives at IASFM17 held in University of Macedonia Thessaloniki, Greece, July 24 – 27, 2019. (Co-author with Meghna Kajla)

"*Researching Refugees: Some Ethical Considerations at the Border.*" Canadian Association of Refugee and Forced Migration Studies (CARFMS) Annual Conference 2018: Dialogue Beyond Borders, Carleton University, May 22-25.

Sohini Guha

"Dilemmas of Democratic Deepening in India: Notes from Two North Indian States", at the National Conference on 'Indian Democracy at the Crossroads,' Department of Political Science, University of Hyderabad, January 23-24 ,2019.

### **Workshop**

Second workshop of the ICSSR Research Project (Sponsored) on Popular Imaginaries and Discourses on Politics in India: Exploring Cultural Narratives as Alternative Sites of Knowledge Construction' Nehru Memorial Museum and Library (NMML), New Delhi, 30-31 Aug 2018.

Third workshop of the ICSSR Research Project (Sponsored), on Popular Imaginaries and Discourses on Politics in India: Exploring Cultural Narratives as Alternative Sites of Knowledge Construction, Indian Institute of Advanced Study, Shimla, 8-9 February 2019.

### **Other Inter-Institutional Collaboration**

Knowledge, Development and Politics in Post-Colonial India: Contestations in State, Market and Civil Society ICSSR Partners Institutions are: Institute of Rural Management, Anand, Azim Premji University and South Asian Network for Dams, Rivers and People Madhulika Banerjee, University of Melbourne, Australia and University of Birmingham, UK Prof Navnita Chadha Behera (Convener on behalf of Department) and Dr. Nasreen Chowdhory

**Ph. D.** - 21

**M. Phil.** - 23

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## SOCIAL WORK

### Major Activities and Achievements

The Department of Social Work is an eminent institution offering social work education in the country. Ranked at number two in the major surveys of professional colleges/institutes offering social work programmes in the country, the Department has continued to maintain an exalted status among its peers. It continues to enjoy the status of a UGC Centre of Advanced Studies. The Department continued to achieve excellent job placements for all students aspiring to work after their Masters Programme. The rest of the students went forward to pursue advanced studies. The students, research scholars and faculty of the Department continued to play a proactive role in engaging with a multiplicity of developmental issues and concerns. The academic year was replete with many curricular and co-curricular programmes, many of which entailed networking and collaboration with a diversity of governmental and civil society organisations. These opportunities provided the students and faculty a rich and dynamic platform to augment their understanding and competencies to emerge as one of the best in the domain of human service.

Apart from its multifaceted field action projects *Centre for Community Development and Action* and *Centre for Adolescent and Child Well Being*, both of which organised a series of programmes, the Department continued to spearhead the Unnat Bharat Abhiyan (UBA) for the . A team of students and faculty actively engaged themselves with need based and participatory community initiatives in the five adopted villages. Work in the realm of *Swachhta Abhiyan*, Health and Women's Development & Empowerment comprised the main thrust areas of the UBA. In all, the Department continued to chart a distinguished trajectory over the entire academic year.

### Honours/Distinctions

The Department continued to occupy the distinguished number two position among the top ten institutions offering social work education in the country by the prestigious Outlook Drishti Professional Colleges Ranking 2018. The Department feels extremely proud of its performance and for doing the University proud by being acknowledged for its consistently high standards in teaching, research and social outreach. The Department occupied top position in the country with respect to the two most important parameters 'Academic Achievement' and 'Placements'. Further, it also attained number two position in the first 'India Today Survey' rankings, while topping in the components of 'Academic Merit', 'Student Progression and Placements' and; 'Governance'.

Sanjai Bhatt was bestowed with the Heritage Shree Award 2018; and was appointed as the Regional President (South Asia), International Council on Social Welfare.

Dr. Sanjoy Roy was conferred the Glory of India Gold Medalist Award, 2018; the Neelkanth Award and Scroll of Appreciation for the Defender of Democracy; the Best Academician of the Year Award (Male), 2018 by Global Education and Corporate Leadership Awards and was declared the Rising Personality of the Year 2018 by Rifacimento International Group of Editors.

### Publications

Adusumalli, M. and Dutta, S. (2018). Dissecting a Himalayan Disaster: Finding Pathways. In Lena Dominelli (Eds.), Routledge Handbook of Green Social Work. London. Routledge.

Agnimitra, N. (2018). "Empower Pragati - Transformational Training and Women's Empowerment" (second author Ms. Vidya M. Iyer) in the United Nations Development Programme (UNDP)- Istanbul International Centre for Private Sector in Development (IICPSD) Report titled "How the Private Sector Develops Skills: Lessons from India.

Agnimitra, N. (2018). "An Assessment of Rational and Safe use of Medicines in the Community: An Advocacy Cum Action Engagement" in the book "The State of Marginalization and Public Health Issues in India" (Authors: Shashi Rani and Wakar Amin) *Winshield Press*,.

Anand, M. (2018). Gender Understandings among Students and Teachers: Discourses from Delhi. *South Asia Research*, 38 (3), 307-326. *Sage Publications*.

Anand, M. (2018). The Politics of Higher Education: Critical Perspectives. *Jamia Journal of Education*, 4 (2), 162-169. Faculty of Education, Jamia Millia Islamia.

Anand, M. (2018). Deconstructing the Etiology and Prevention of Mental Illness: A Developmental Perspective. *Delhi Psychiatric Journal*, 21, 1, 19-25. Delhi Psychiatric Society.

Anand, M. (2017). Battered Conjuality: Dynamics of Intimate Partner Violence and Social Work Practice. *Social Work Education, Research and Action*,.

Bhatt, S. (2018). A Century of Social Work Profession: An Analysis of Changing Definitions, *Journal of Social Work Education Research and Action*, Vol.4 No 2.

Bhatt, S. (2018). The Lhotsampa People of Bhutan: Resilience and Survival, *The International Journal of Community and Social Development*, Vol. 1, No. 1, Sage Publication.

Bhatt, S. and Phukon, D. (2018). Social Work Educational Institutions in India: An Analysis in S.M. Sajid and Rashmi Jain, *Reflections on Social Work Education*. : Bloomsbury.

Dar, S. A. (2017). Education and Social Exclusion: A Case Study of Gujjars and Bakarwals in Jammu and Kashmir. In A. Sacher, T.Kaushik, & E.Jain, *Elixir* (pp. 417-430). : Bloomsbury Prime India.

Dar, S. A. (2017). Gujjars of Jammu and Kashmir: Insights into the Educational Facilities in Schools in J & K. *Manpower Journal (NILERD)* , pp. 57-68.

Dar, S.A. (2017). Gujjars of Jammu and Kashmir: An Insight into the Exclusionary Practices in Schools. *Journal of Social Work Education, Research and Action (JSWERA)*, pp.117-127.

Jha, M. & Jamil, G. (2018). "Dismantling the Public University". *The Indian Express*.

Jha, Manoj. (2019). "Dear Friends in the Opposition" *The Indian Express*.

Jha, Manoj. (2019). "EWS quota is a Midnight Robbery" *The Statesman*.

Jha, Manoj. (2018). "Temples of Learning Have Become Breeding Grounds for Bigotry: A Letter to Nehru" *The Wire*.

Jha, Manoj. (2019). "*Bapuke Naam: AajAapJaisa Koi Nahi, Jo BharosaDila Sake ki Sab Theek Ho Jayega*" *The Wire Hindi*.

Jha, Manoj. (2018). Is a Grand Opposition against the BJP Possible? Opinion piece for *The Hindu*.

Jha, P. (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*.

Jha, P. (2018). Chapter titled "Identity and Cultural Rights of Minorities in India" in Sajjad Hassan (ed.) *India Together: India State of Minorities Report, 2018*.

Kaushik, A. (2018). Use of Self in Social Work: Some Reflections, *Indian Journal of Social Work*, Vol. 79, Issue 4, pp. 403-141.

Kaushik, A. (2018). Chapter titled, "Touching the Untouchable: Dalit Empowerment through Consciousness-raising in an Indian Village" (co-authors: Lenin Reghuvanshi and M.L. Panda) in the book

Consciousness-raising: Critical Pedagogy and Practice for Social Change (Editor: Nilan Yu) Routledge Advances in Social Work, pp.14-31.

Kaushik, A. (2018). "Living Pattern of Nat in Rajasthan: Looking beyond Exclusion", (first author: Hemraj P Jangir), in *Journal of Social Inclusion Studies*, Sage, Vol.3, No.1 & 2, pp.113-125. ISSN: 2394-4811.

Khan, A. & Sikandar, R. (2018). Linking Gender Vulnerability and Disasters. In B. Zutshi, Ahmad, A, Srungarapati, A.B. (Eds). *Disaster Risk Reduction: Community Resilience and Response*. Palgrave MacMillan Publications. Springer. pp. 215-230.

Khan, A., Islam, K.M.B. & Mitra, A. (2018). Exploring the Status of Community Information and Training for Disaster Preparation and Mitigation Practices: An Appraisal of 2013 Flash Flood in Uttarakhand. *International Journal of Emergency Management*. Inder Science. ABDC Ranked Journal: Category 'C'.

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. pp. 1-18.

Maske, S.. (2018). Nutritional Status of SC-ST Community: A Case Study of Maharashtra in (ed): The State of Marginalization and Public Health Issues in India by Ms. Shashi Rani and Wakar Amin, Winshield Press, Darya Ganj, New Delhi.

Pandey, N. & Kaithwas, M. (2018). Incompetency and Challenges of Police in Rape Cases, *Social Work Chronicle*, Vol.7, No.1, 52-71.

Pandey, N. Kumar, H. & (2019). Social Exclusion of Musahars in Uttar Pradesh: An Overview, *Journal of Social Exclusion*, Vol 9(1), 26-34.

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.

Patil, P. (2018). Deconstructing the notion of Mothering in "Family and Child Centered Social Work: A Case of Sex Worker mothers.

Patil, P. (2018). New Horizons in University Education. *A Journal of Development and Social Justice*. Vol. 08(1) January-April 2018.

Roy, Sanjoy. (2018). Social Work in a Correctional Setting in India, *Asia Pacific Journal of Advanced Business and Social Studies (APIAR)*, 4, 2, pp-114-129, Australia.

Roy, S. & Kumar, A. (2018). Educational Aspirations and Expectations among Scheduled Caste Students: A Study of Uttar Pradesh, India, *International Journal of Historical Archaeology & Anthropological Sciences*, Med Crave, pp-689-694, 3, 5, USA.

Roy, S. & Masaumi, Q. (2018). Intimacy and Alcoholism: Rethinking Resilience in the Families of Alcoholic Men: A Case Study from Public Health Perspective, *CPQ Medicine*, CientPeriodique Publication, 3(3), pp-01-8, Canada, Germany.

Roy, S. & Haripriya. (2018). Developing Emotional Competence as a Life Skill among Adolescents, *International Journal of Historical Archaeology & Anthropological Sciences*, Med Crave, 3, 6 pp-813-816, USA.

Roy, S. (2018). *Social Work in Globalizing World: Practices and Challenges*. Jaipur & : Rawat Publication.

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. (2018). “Structural Changes Vs Welfare: The Renewed Challenge before the Profession” in Shahare and Rehman (edited) *Practice of Social Work: Emerging Concerns*. : Bloomsbury.

Sharma, S. (2017). “A Politico Geographic Study of Gadulia Lohar Community in Delhi”. *The Deccan Geographer*. 55 (1 &2).

Singla, P. (2018). Ujjawala Scheme for Curbing of Trafficking of Women and Girl Child: A Cross State Analysis’ in *Violence against Women: Varied Perspectives* by Nalin Ramaul and Vivek Negi (edt.), Published by Amazon Global

Singla, P. (2019). My Journey into Social Work Education, Practice and Gender’ in *Manan: Reflections on Social Work Education and Practice* by Ratna Verma, BookGanga.com.

Singla,P, Baniwal, S., Menon, K., Viswanath, K., Desai, N., & Kumar, M. (2018). ‘Women’s Safety in the National Capital Territory of Delhi’, Delhi Police.

Verma, S.. (2018). Understanding Socio-Economic and Political Economy of Footwear Artisans from Medieval Period to Colonial Period. *International Journal of Innovative Knowledge Concepts*, Vol. 6, No. 7.

Verma, Surinder. (2018). Politics of Tribal Livelihood and Development in India. *The Voice: An International Refereed Research Journal*, Vol. 5, No. 1.

Verma, Surinder. (2017). Is Law Strong Enough over Customs? The Saliency of Child Marriage in India. *Legal Research Development: An International Refereed e-Journal* 3, issue1.

**Editor/ Associate Editor/ Manging Editor -2**

**Member, Editorial Board/ Advisory Board - 4**

### **Research Projects**

ICCSR, Adusumalli, B., undertook a research project titled “Sustainable Development of Mountain Communities: A Participatory Approach- enhancing Livelihoods, Food Security and Capacity Development for Disaster Preparedness and Response, Bhatwari Block, Uttarkashi District.

Anand, M., Conducted a research consultancy study on ‘Impact Assessment of CSR Initiatives of Tata Power-Delhi Distribution Limited.

Bhatt, S.

Evaluation of Project on Attaining Child Rights: Rescue Assistance and Social Reintegration of Child Labour Implemented by BBA, funded by Association of Voluntary Agencies, New Delhi.

Conducted Research Study on Safety of Adolescent Girls in Public Transport for CASP – PLAN, funded by Plan India, New Delhi.

Impact Assessment Report of ONGC Center of Advanced Studies Academic Block at University of Lucknow, funded by CSR, ONGC.

‘Enhancing Educational and Vocational Aspiration among Scheduled Castes and Scheduled Tribes Students: An Action Research in Underdeveloped District of Chhattisgarh’, funded by ICSSR.

Pandey, N

Establishment of Social Service Unit in Police Stations in Delhi, Ministry of Human Resource Development, Government of India (Nirbhaya Fund)

Review of Redressal System of Public Grievance Commission (PGC) in Delhi. A research study being undertaken by Department of Social Work in collaboration with TYCIA foundation. Funded and facilitated by Public Grievance Commission.

Sharma, S

“Locating National Human Rights Commission within the Human Rights Discourse at the Grassroots in Rural India” funded by the National Human Rights Commission

“Impact Evaluation of HPCL CSR Projects” funded by HPCL.

“Member, National CSR Awards Committee” funded by IICA.

### **Seminars Organized**

#### **Total number of seminar organized -7**

The Department of Social Work in collaboration with the National Association of Professional Social Workers in India (NAPSWI) organized the Sixth Indian Social Work Congress on the theme *Human Development and Social Inclusion: Imperatives for Social Work Education and Practice* from 1<sup>st</sup> to 3<sup>rd</sup> November, 2018.

The Department, in association with NAPSWI jointly organized a *Round Table Discussion on "Council for Social Work Education: Challenges and Way Forward"* on 16<sup>th</sup> March, 2019.

The Department organized a Round Table Discussion On “Unorganized Worker’s Social Security Act 2008 With Various Stakeholders on 5<sup>th</sup> February, 2019.

The Department collaborated with German House to organize Indo German Film Festival on Active Aging. The Festival was organized on 24<sup>th</sup> September, 2018 to foster a dialogue between generations to create awareness about active aging and demographic changes associated with it. The event was an initiative with several collaborations which included the European Film Festival for Generations, Ministry of Social Welfare and Justice, United Nations Population Fund with India International Centre as the hosting partner.

An interactive seminar was organised titled *Agrarian Crisis: Challenges and Possibilities* on 8<sup>th</sup> October, 2018 .

The Department organised half- day interactive dialogue with Hon’ble former Vice President of India Shri Hamid Ansari and social activist Ms.Aruna Roy as panellists on the theme of *Democracy, Diversity and Inclusion* on 12<sup>th</sup> November, 2018.

A panel discussion was organized on the theme of Dr. Ambedkar’s thought on Women Emancipation on 26<sup>th</sup> April, 2018.

A two-day workshop on *Participatory Rural Appraisal (PRA)* was organized in collaboration with ActionAid India on 13<sup>th</sup> and 15<sup>th</sup> February, 2019.

### **Conference Organized**

A one-day workshop was organized in the Department in collaboration with the Institute of Liver and Biliary Sciences (ILBS), New Delhi on “*Empowering People Against Hepatitis*”.

The Department collaborated with Sasakawa-India Leprosy Foundation (S-ILF), a registered Indian Charitable Trust, to organize a one-day sensitization workshop on Leprosy on 14<sup>th</sup> January, 2019.

A One Day Case Conference of Social Workers of SSUs, Delhi Police was organised on 1<sup>st</sup> December, 2018

A two-day Refresher Training Programme was conducted by Dr. Neena Pandey, Principal Investigator (PI) as Technical Support Agency (TSA) for Social-Workers working under “Social Service Units” Project on 24<sup>th</sup> September and 4<sup>th</sup> October, 2018 for enhancing the skills on specific areas.

An interactive workshop titled 'CHANGE150' was organised by Kochi based NGO *Letter Farms* in collaboration with Department on 1<sup>st</sup> March, 2019

### **Seminar/Conference Presentations (National/International)**

Adusumalli, M.

Presented a paper with Monisha L Narayanan, “*Researching Children in Street Situations: Field Challenges and Innovations*”, Annual Conference for Professional Psychiatric Social Workers at National Institute for Mental Health and Neuro Sciences (NIMHANS), Bangalore.

M., Presented a paper with Manisha Chandra, “*Community Approach to Resilience and Well-Being*”, Annual Conference for Professional Psychiatric Social Worker at National Institute for Mental Health and Neuro Sciences (NIMHANS), Bangalore.

Delivered Valedictory Address at the National Seminar on Social Work and Marginalized Groups at the Department of Social Work, Maulana Azad National Urdu University, Hyderabad on 20<sup>th</sup> March, 2018.

Participated as Expert Member at the One Day Workshop for Expert Committee on CSR at the Indian Institute of Corporate Affairs, Holiday Inn, New Delhi on 22<sup>nd</sup> October, 2018.

Delivered introductory note at the Sixth Indian Social Work Congress on Human Development and Social Inclusion: Imperatives for Social Work Education and Practice, jointly organized by NAPSWI and Department of Social Work, at the Conference Centre, on 1<sup>st</sup> November, 2018.

Chaired a session on Medical Social Work at the International Conference on, “*Emerging Challenges to Environmental and Occupational Health and Sustainability*”, organized by the Department of Social Work, Jamia Millia Islamia and School of Public Health, University of Minnesota, USA on 18<sup>th</sup> January, 2019

Chaired the plenary session on “*Indigenous Social Work Practices and Civil Society Organizations*” at the National Conference on Indigenous Social Work: Challenges, Responses and Way Forward at the Department of Social Work, Jamia Millia Islamia University on 17<sup>th</sup> November, 2018.

Delivered keynote address on “*Climate Change and Sustainable Development: Linkages, Impact and Social Work Imperatives*” at the National Seminar on Climate Change and Sustainable Development: Facts, Impacts and Perspectives, organized by the Faculty of Social Work, Maharaja Sayajirao University of Baroda, with support from the Climate Change Department, Government of Gujarat on 14<sup>th</sup> March, 2019.

Organizing Secretary for the 6<sup>th</sup> Indian Social Work Congress on Human Development and Social Inclusion: Imperatives for Social Work Education, jointly organized by NAPSWI and Department of Social Work, from 1<sup>st</sup> - 3<sup>rd</sup> November, 2018.

Presented a paper “*Strength-Based Approach to Social Work Practice with Survivors of Domestic Violence*” in the Golden Jubilee Celebration of the Department of Psychiatric Social Work, NIMHANS and XXXVII Annual National Conference of ISPSW Conference on ‘Social Work and Wellbeing: Practice and Strategies’, organized by the Indian Society of Professional Social Work and Department of Psychiatric Social Work, NIMHANS from 3<sup>rd</sup> to 5<sup>th</sup> January 2019 (Co-Presenter).

Anand, M.

Presented a paper “*Gender Mainstreaming and Sustainable Development: Towards a Praxis*” in the National Seminar on ‘Women Empowerment: Perspectives on Gender Discrimination and Inclusive



Policies with Special Reference to Higher Education’, organized by Association of Indian Universities, New Delhi and Sarojini Naidu Centre for Women’s Studies, Jamia Millia Islamia from 28<sup>th</sup> to 29<sup>th</sup> November 2018.

Presented a paper “*Dialectics of Mental Health and Illness: Towards Inclusionary Practices*” for the 6<sup>th</sup> Indian Social Work Congress on ‘Human Development and Social Inclusion: Imperatives for Social Work Education and Practice’, organized by NAPSWI and Department of Social Work, from 1<sup>st</sup>- 3<sup>rd</sup> November 2018.

Chaired a session on ‘*Mental Health*’ in the 6<sup>th</sup> Indian Social Work Congress on ‘Human Development and Social Inclusion: Imperatives for Social Work Education and Practice’, organized by NAPSWI and Department of Social Work, from 1<sup>st</sup>- 3<sup>rd</sup> November 2018.

Bhatt, S.

Organized, 6<sup>th</sup> Indian Social Work Congress 2018 on *Human Development and Social Inclusion: Imperatives for Social Work Education and Practice*, in collaboration with National Association of Professional Social Workers in India (NAPSWI) and Department of Social Work, , at Conference Centre, from 1<sup>st</sup> November to 3<sup>rd</sup> November, 2018.

Organized, Round Table Discussion on “*Council for Social Work Education: Challenges and Way Forward*” at the Department of Social Work, in association with NAPSWI on 16<sup>th</sup> March, 2019.

Organized, Peoples Manifesto for General Election, 2019 by Pairvi in association with NAPSWI and GSSWA on 25<sup>th</sup> March, 2019.

Valedictory Address, at National seminar on Youth and Civic Engagement: Perspectives and Prospects, organized by National Service Scheme, Andhra University, Vishakhapatnam and Bhumika Women’s Collectives, Hyderabad, 23<sup>rd</sup> March, 2019.

Valedictory Address, Promoting Human Relationship, Social Work Day 2019, Department of Social Work, University of Science & Technology, Meghalaya, 19<sup>th</sup> March, 2019.

Chief Guest for the Inaugural Ceremony of National Level Seminar Alva’s Reach -2019, organized by Department of Social work, Alva’s College Moodbidri, Manglore, Karnataka, 18<sup>th</sup> January, 2019.

From Safety Nets to Springboards: Putting the Last Girl First - The Role of Legislature’ organized by Plan India’s National Conference PLAN for Every Child, New Delhi, 5<sup>th</sup> – 7<sup>th</sup> December, 2018.

Panelist, in National Conference on Indigenous Social Work: Challenges, Responses and Way Forward, 16<sup>th</sup> and 17<sup>th</sup> November, 2018, Jamia Millia Islamia, .

Dar, S.

Presented a paper titled “*Social Exclusion of Gujjar Tribe of Jammu and Kashmir*” at National Conference on Human Capital Formation: Issues and Challenges held on 9<sup>th</sup> and 10<sup>th</sup> of February, 2015 at St. Joseph’s College, Bangalore.

Presented a paper titled “*Education and Social Exclusion: A Case Study of Gujjars and Bakarwals in Jammu and Kashmir*” held on 8<sup>th</sup> of September, 2017 at 4<sup>th</sup> International Case Conclave, GD GOENKA University, .

Jha, P.

Presented paper “*Social-Political Activism and the New Middle Class: An Exploration of the Contemporary Mobilizations in Urban Spaces*” in National Seminar “Experiences, Aspirations and Struggles: New Middle Classes in Indian Cities” jointly organized by Tata Institute for Social Sciences and Ford Foundation, held at Old Conference Hall, Tata Institute for Social Sciences, Mumbai on 26<sup>th</sup> - 27<sup>th</sup> July, 2018.

Presented paper "*Euro-centrism and Social Work Education: Ripostes from Indigenous Traditions from India and Third World*" in the National Conference on Indian Social Work: Scope and Challenges, held on 14<sup>th</sup> - 15<sup>th</sup> March, 2018 at B. R. Ambedkar College, ; jointly organized by Dr. Bhim Rao Ambedkar College, , Delhi & Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, sponsored by Indian Council of Social Science Research.

Presented paper "*Social Work Practice and Minorities: Problematics, Premises and Prospects with a Special Focus on Muslim Minorities*" in two-day National Seminar on Social Work and Marginalised Groups, organized by Department of Social Work, Maulana Azad National Urdu University (MANUU) Hyderabad, held on 19<sup>th</sup> - 20<sup>th</sup> March, 2018.

Chaired a Technical Session themed "*Marginalized Groups and NGOs*" in two-day National Seminar on Social Work and Marginalised Groups, organized by Department of Social Work, Maulana Azad National Urdu University (MANUU) Hyderabad, held on 19<sup>th</sup> - 20<sup>th</sup> March, 2018.

Co-chaired a parallel session in the 6<sup>th</sup> Indian Social Work Congress, on 3<sup>rd</sup> November, 2018 at Conference Centre, .

Kaushik, A

Presented paper, "*Chasing Life Unlived: Under the Shadow of Death*" at the 6<sup>th</sup> Indian Social Work Congress, organized by Department of Social Work, and NAPSWI on 1<sup>st</sup> to 3<sup>rd</sup> November, 2018.

Presented paper, "*Redefining Success: Role and Scope of Social Work*" at the 6<sup>th</sup> Indian Social Work Congress, organized by Department of Social Work, and NAPSWI on 1<sup>st</sup> to 3<sup>rd</sup> November, 2018.

Resource Person delivered a talk on "*Elder Abuse: Manifestation, Magnitude, Causes and Consequences*" at the two-day Workshop on "Elder Abuse and Crime Against the Elderly: Challenges and Preventive Measures", organized by the Department of Humanities and Social Sciences, Indian Institute of Technology, Roorkee, Uttarakhand and NISD, Ministry of SJE on 21<sup>st</sup> February, 2019.

As an Expert, talked on , "*Indigenization of Social Work Education and Practice through Bhakti and Yoga*" at the National Conference on Indian Social Work: Scope and Challenges, held on 14<sup>th</sup> - 15<sup>th</sup> March, 2018.

Delivered a talk in the plenary session on "*Reducing Vulnerabilities among Older Persons through Social Support*" at National Seminar on "Ageing and the Elderly Care: Critical Issues, Challenges and Way Forward", organized by the Department of Social Work, Kashmir University and NISD, on 29<sup>th</sup> and 30<sup>th</sup> March, 2018.

Lecture delivered for Senior level functionaries of Criminal Justice System including JM/Dy. SP/ASP/ACP, APO/Public Prosecutors & Correction/Prisons Officers from all over the country at National Institute of Criminology and Forensic Sciences, on "Juvenile Justice (Care and Protection Act), 2015: Main Features and Issues" on 10<sup>th</sup> April, 2018.

Delivered a special lecture on "*Basics of Quantitative Research*" on 13<sup>th</sup> July, 2018 to the faculty, PhD scholars, MSW students at Department of Social Work, Pondicherry University.

Kaushik, A., Delivered a lecture on "*Gerontological Social Work: An Emerging Area of Study and Practice*" at Aditi College on 20<sup>th</sup> July, 2018.

Lecture delivered for Senior level functionaries of Criminal Justice System including JM/Dy. SP/ASP/ACP, APO/Public Prosecutors & Correction/Prisons Officers from all over the country at National Institute of Criminology and Forensic Sciences, on "Data Processing: developing Univariate, Bivariate and Multi-Variate Tables and Analysis" on 4<sup>th</sup> July, 2018.

Delivered a lecture on "*Therapeutic Interventions for Active Ageing*" at the National Workshop on "Active Ageing in 21<sup>st</sup> Century: Challenges, Concerns and Opportunities across Multiple Stakeholders", organized by Department of Social Work, Central University of Rajasthan and NISD, , 27<sup>th</sup> - 28<sup>th</sup> September, 2018.

Delivered a lecture on "*Institutional and Community based Interventions for Geriatric Population*" at the National Workshop on Active Ageing in 21<sup>st</sup> Century: Challenges, Concerns and Opportunities across Multiple Stakeholders", organized by Department of Social Work, Central University of Rajasthan and NISD, , 27<sup>th</sup> – 28<sup>th</sup> September, 2018.

Delivered a lecture on "*Active Ageing and Empowerment: Concept and Possibility*" at the National Workshop on "Active Ageing in 21<sup>st</sup> Century: Challenges, Concerns and Opportunities across Multiple Stakeholders", organized by Department of Social Work, Central University of Rajasthan and NISD, , 27<sup>th</sup> - 28<sup>th</sup> September, 2018.

Delivered a lecture on "*Circle of Care: Role of Social Support*" in the National Seminar on "Ensuring Healthy Lives and Promoting Wellness in Old Age", organized by All India Women's Education Fund Association and Lady Irwin College, Delhi University on 1<sup>st</sup> and 2<sup>nd</sup> November, 2018.

Delivered a lecture on "*Newer Challenges in Administration and Nuances of Good Governance*" at Aditi College 12<sup>th</sup> April, 2018.

Delivered a lecture on "*Geriatrics: Institutionalization, Health Conditions and Social Problems of the Elderly*" at Janki Devi College, Delhi University, on 4<sup>th</sup> October, 2018.

Presented a paper titled, "*Chasing Life Unlived: Under the Shadow of Death*" at the 6<sup>th</sup> Indian Social Work Congress, organized by Department of Social Work, and NAPSWI on 1<sup>st</sup> to 3<sup>rd</sup> November, 2018.

Presented a paper titled, "*Redefining Success: Role and Scope of Social Work*" at the 6<sup>th</sup> Indian Social Work Congress, organized by Department of Social Work, and NAPSWI on 1<sup>st</sup> to 3<sup>rd</sup> November, 2018.

Khan, A., Presented a paper on "*Emerging Trends of Mass Media in Pre and Post Disaster Situations: A Case Study of Uttarakhand Flash Flood*" at the 6<sup>th</sup> Social Work Congress organized by NAPSWI in collaboration with Department of Social Work, from 1<sup>st</sup> – 3<sup>rd</sup> November, 2018.

Maske, S., Presented a paper on "*Experiential Learning in Rural Development: Insights from Practice Wisdom (A Case Study of Wangegaon Village)*" at Dr.Bhim Rao Ambedkar College, Delhi University and Department of Social Work, Mahatma Gandhi International Hindi University.

Pandey, N.

Presented a paper, "*Undeclared Single Parent Women: Struggle, Challenge and Achievements*", 6<sup>th</sup> Indian Social Work Congress on Human Development and Social Inclusion: Imperatives for Social Work Education and Practice, 2018.

Presented a paper, "*(S) exclusion of Growing Sexualities: Redefining Role of School Social Work*", National Conference on Social Work and Child Rights: Contemporary Issues and Way Forward, Amity University, 2018.

Refresher training on for "*Social Workers Working in Social Service Units (SSUs) in Special Police Unit for Women and Children (SPUWAC)*", addressing sexuality and sexual health issues through counselling and addressing issues of Social Workers while handling the cases of substance abuse through the role plays, Ministry of Human Resource Development, Government of India through Nirbhaya Fund and Delhi Police.

One-day Case Conference, Capacity Building and Learning Exercise of Social Workers of Social Service Units of Delhi Police, Ministry of Human Resource Development, Government of India, through Nirbhaya Fund and Delhi Police.

Rani, S.

Presented paper , "*Aggression and Violence among Children: Causes, Trends and Social Work Intervention*" in 6th India Social Work Congress (ISWC) held at , , on 1<sup>st</sup> -3<sup>rd</sup> November.

Presented Joint paper, "*Redefining Success Role and Scope of Social Work*", in 6th India Social Work Congress (ISWC) organized by NAPSWI and Department of Social work, , , 1-3 November.

Presented paper , "*Revisiting Phule and Ambedkar Approaches of Social Justice and its Relevance in Contemporary Social Work Practice*", National Seminar on "Indian Social Work Scope and Challenges", organized by Dr. B.R. Ambedkar College, , held on 14<sup>th</sup> -15<sup>th</sup> March, 2018.

Roy, S.

Presented a paper on "*Geriatric Social Work in India: Scope and Concern*" in 6<sup>th</sup> Indian Social Work Congress, 2018.

Presented a paper on "*Tagore's Shanti Niketan Experiment: A Viable Indian Indigenous Model for Rural Development*" in National Seminar on Indian Social Work: Scope and Challenges in March, 2018.

Chaired a session, 6<sup>th</sup> Indian Social Work Congress, 2018.

Organized one-day workshop cum discussion forum on "Understanding Barriers to Access Timely Medical & Psychological Care faced by Survivors of Sexual and Gender based Violence" funded by Umeed ki Kiran Clinic, a project of Doctors without Borders (MSF), India.

Singla, P.

Presented paper "*Women's Empowerment: Work Life Balance*", National Women Conference-Astitva' organized by Northern India Regional Council (NIRC) of Institute of Chartered Accountants of India (ICAI), Hotel Royal Plaza, Delhi, 9<sup>th</sup> February, 2019.

Presented paper, "*Ashram Schools: Issues of Tribal Girls Safety, Security and Educational Empowerment*" in National Seminar on, 'Status of Tribal Ashram Schools in India: Issues, Challenges and Prospects, 28<sup>th</sup> - 29<sup>th</sup> December, 2018, organized by Department of Social Work, Jamia Millia Islamia, Delhi and Institute of Social Science and Research, Pune at Law College Auditorium Bharti Vidyapeeth University, Pune, 28<sup>th</sup> December, 2018.

Presented a paper at the Indian National Congress on theme '*Human Development and Social Exclusion: Imperatives for Social Work Education and Practice*', 1<sup>st</sup> - 3<sup>rd</sup> November, 2018 at Conference Hall, .

Thomas, N.T., Presented a paper on the "*Demand for Inclusion in the Sixth Schedule: The Case of Autonomous District Councils, Manipur*" on 3<sup>rd</sup> November, 2018 during the 6th Indian Social Work Congress organized by NAPSWI.

Verma, S., Presented paper titled "*Disaster Management and Consciousness for Non-Human Lives Amongst Youth: A Theoretical Approach in Reinforcing Coastal Zone Management: Saving Lives*", Habitats and Livelihood of People, 15<sup>th</sup> -18<sup>th</sup> November, 2018 at Pondicherry University, Puducherry.

#### **Other Inter-Institutional Collaborations:**

Apart from continuing its membership of the prestigious Asian Pacific Association for Social Work Education (APASWE), the Department also worked towards forging its association with the Heidelberg University, Germany; Wilfrid Laurier University, Canada, University of South Australia University of Calgary, University of Edinburgh, University of South Australia and Victoria University.

#### **Placement Details**

Students Placed: 54 (90 per cent, as of now. Work by the Department Placements Cell is still ongoing).

### **Extension and Outreach Activities**

As a premier social work educational institution, the Department has undertaken field action projects to demonstrate the relevance of social work intervention in dealing with social issues and problems. The Centre for Community Development and Action (CCDA) continued to meaningfully engage with community constituencies. Apart from implementing an array of need based and constantly evolving interventions, the CCDA team ensured multiple successful engagements at Burari. The Centre is doing commendable work under the inspiring leadership of Pamela Singla.

Another project of the Department called Centre for Child and Adolescent Well Being (CCAW) has continued to extend its innovative interventions to its diverse clientele groups under the supervision of Dr. A. Malathi.

The Department continued to run the prestigious project: Unnat Bharat Abhiyan for the . The project is being undertaken in five villages which have been adopted by the University, and which have been identified on the basis of their low socio-economic indicators. These are: Badarpur Khadar, Chauhan Patti, Jagatpur, Mukundpur and Jharoda. Apart from village specific work domains, the UBA initiatives focused on sanitation, health and women's empowerment. Of special mention is the trend setting 'Sakhi Saheli' programme to mitigate 'period poverty'. With a unique pedagogy of engagement and a process oriented, long term vision, the programme is promoting menstrual hygiene among the community women and girls. Neera Agnimitra is the Nodal Person for the Unnat Bharat Abhiyan programme for the University.

### **Number of M.Phil./Ph.D Degree Awarded - PhD, M.Phil.**

Ph.D.	-	9
M.Phil.	-	11

### **Faculty Strength**

Permanent faculty	-	15
Ad-hoc	-	1
Guest	-	5

### **Other Significant Information**

The Department continued to organise a series of workshops, seminars, discussions and training programmes. The many new initiatives included a Refresher Training of Social Workers of Social Service Units (SSUs) of Delhi Police Case Conference and the One day Case Conference of Social Workers of SSUs, Delhi Police; the Lecture series on 'Mental Health and Well-Being', a Dialogue on Democracy on the Theme Democracy, Diversity and Inclusion; Lecture on Decoding Agrarian Crisis: Challenges and Possibilities and the Unity March and Signature Campaign for Farmers in Distress; a Round Table Discussion on "Unorganized Worker's Social Security Act 2008 With Various Stakeholders; Preparatory Meetings for HUNKAR Rally organized for claiming Right to Education and Meetings of the Delhi Coordination Committee on RTE; the Safai Karamchhari Andolan; Dr Selvam Memorial Debate; the Ambedkar Memorial Lecture Series; an innovative Hindi Diwas and tree plantation programme; participation in the Indo- German Film Festival on Active Aging; the Sasakawa India Leprosy Foundation Workshop on awareness building and action for the mitigation of 6 leprosy; the Empathy Campaign: Empowering People Against Hepatitis; PRA Workshops and multiple workshops on Research Methodology and Academic writing for research scholars; and the very meaningful Research Colloquium Series.

In the context of social work education and practice, the Department very proudly hosted the Sixth Social Work Congress with the theme: Human Development and Social Inclusion: Imperatives for Social Work

Education and Practice in collaboration with National Association of Professional Social Workers in India. This forum represents the Mecca for the social work fraternity and social work faculty, practitioners, students and research scholars from across the country came to this forum and put in an enthused participation.

The Department also continued with unique events in the form of Celebration of North East Day and the exclusive Mega Job Fair for Persons with Disability in collaboration with the Blind Relief Association. The Department's relief initiative towards the floods in Kerala was organized by our research scholars who worked very hard and networked with the Kerala Relief Centre. During the same, the faculty and students came together to mobilise valuable resources for the Kerala flood survivors.

The initiative to consolidate the Alumni Network of the Department assumed significant dimensions with the active endeavours of the students, faculty and alumni. A very welcome development has been the formation of a dynamic Alumni Working Committee comprising of thirteen members and the Head of the Department. The Committee has been meeting on a regular basis and is laying down the road map for the formation of an active and dynamic Alumni Association. Two landmark initiatives are the launch of an Alumni portal for creating an updated alumni data bank and creating a synergetic relationship between the Department and its alumni, and the initiation of the Distinguished Alumni Lecture Series.

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## SOCIOLOGY

### Major activities and achievements

The highlights of the year were a visit by the NAAC team. The faculty made more than 60 presentations at national and international seminars and at many other institutions in India and abroad; More than 30 research papers/articles/books were published during the period; 2 internationally funded projects are ongoing; faculty have membership of editorial boards of several prestigious international and national journals and are collaborating with several other institutions at various levels; 19 seminars were organized under the aegis of the prestigious Sociological Research Colloquium and VKRV Rao Memorial Lecture Series was initiated at the DSE level by the director; One academic workshop several reading and writing workshops with students were held during the period. Department Day, which was held on the last Friday of February included a lively discussion on the interface between Literature and Sociology. The Department is also in the process of signing an MOU with Xiangtan University, China for student and faculty exchange.

### Honours and distinctions

Tila Kumar was felicitated by Kosli Kriyanusthan Committee, Bargarh and Campaign for Language Equality Rights (CLEAR) on 21st February, 2019 on the occasion of International Mother Tongue Day at Bargarh.

### Publications

Abraham, Janaki and Arif, Yasmeen. (co-editors with Sanjay Srivastav), (2019). *Critical themes in Indian sociology*, : Sage Publications.

Abraham, Janaki and Arif, Yasmeen. (co-authors with Sanjay Srivastav), (2019). Introduction, *Critical themes in Indian sociology*, Eds. Sanjay Srivastav, Janaki Abraham and Yasmeen Arif, pp. ix- xxiv. : Sage Publications.

Abraham, Janaki. (2019). Changing contours of legitimacy in neighbourhoods: Reflections from a town in North Kerala. *Legitimacy: Ethnographic and Theoretical Insights*. Eds. Italo Pardo and Giuliana Prato, pp.125-143. Switzerland: Palgrave Macmillan.

Abraham, Janaki. (2018). Exploring the contours of legitimacy in neighbourhoods in North Kerala, India. *Urbanities*, 8(1), 32-37.

- Agrawal, Anuja. (2018). Special article: Situating the law on prostitution/sex work in India. *Explorations: E-journal of the Indian Sociological Society*, 2(1), 3-20.
- Agrawal, Anuja. (2018). Gender questions at the margins: The case of nomadic and DNT communities' Antyajaa: *Indian Journal of Women and Social Change*, 3(2), 147-62.
- Agrawal, Anuja. (2018). Revisiting the Marxist approach to sex work. Left politics in south asia: reframing the agenda, Ed. Ravi Kumar, pp. 154-73, Delhi: Aakar Books.
- Aphun. K. (2019). Nagas identity and nationalism: Indigenous movement of the Zeliangrong Nagas in the north east India. *The Palgrave Handbook of Ethnicity*. Ed. Steven Ratuva, London/Singapore: Palgrave Macmillan.
- Chatterji, Roma (2018). The artist as wayfarer. *Catalogue for Tarshito falls in love with India*. : Exhibition at Art Konsult and Arts of the Earth. 2-15.
- Chatterji, Roma (2018). Forward: Towards a sociology from 'unexpected places' and a sociology of possibilities in South Asia. *Sociology and social anthropology in south Asia: Histories and practices*. Eds. R. Kumar, D.N. Pathak and S. Perera, pp.1-8. Delhi: Orient Blackswan.
- Chatterji, Roma (2019). The Folk and the Making of an Indian Aesthetic. *Critical themes in Indian sociology*, Eds. Sanjay Srivastav, Janaki Abraham and Yasmeen Arif, pp. 19-30. : *Sage Publications*.
- Chopra, Radhika. (2018). *Amritsar 1984: A city remembers*. London, New York, Lanham: Lexington Books/Rowman and Littlefield.
- Chopra, Radhika. (2018). *Apana-paraya: the making of a migrant neighbourhood*. *Modernity and the changing social fabric of Punjab and Haryana*. Ed. Yogesh Snehi and Lallan S. Baghel, pp. 299-323. Shimla: Indian Institute of Advanced Studies.
- Chopra, Radhika. (2018). Maps of experience: Narratives of migration in an Indian village. *A handbook of rural India*. Ed. Surinder S. Jodhka, pp. 360-376, : Orient Blackswan.
- Chopra, Radhika. (2018). A museum, a memorial and a martyr: Politics of memory in the Sikh golden temple. *India and its visual cultures: Community, class and gender in a symbolic landscape*. Eds. Uwe Skoda and Birgit Lettmann, pp. 255-277. : Sage Publications.
- Deshpande, S. (2018). Anthropology in India. *The International Encyclopedia of Anthropology*. H. Callan (Ed.). DOI: 10.1002/9781118924396.wbiea2355
- Deshpande, S. (2018). M.N. Srinivas. *The International Encyclopedia of Anthropology*. H. Callan (Ed.). DOI: 10.1002/9781118924396.wbiea2218
- Deshpande, S. (with Palshikar, S.) (Eds.) (2019). *Sectarian violence in India: Hindu-Muslim conflict, 1966-2015*. Hyderabad & Delhi: Orient Blackswan.
- Deshpande, S. (with Palshikar, S.) (2019). Introduction: The social sciences and the *Economic and Political Weekly* on Hindu-Muslim conflict. *Sectarian Violence in India: Hindu-Muslim Conflict, 1966-2015*, Palshikar, S. & Deshpande, S., pp. 1-24. Hyderabad & Delhi: Orient Blackswan.
- Deshpande, S. (with Batra, P., Kothari, A., Kumar, S., Jain, N. & Chandra, K.) (2018). Shiksha: Sankat, chunautiyan aur avsar. *Pratiman: Samay, samaj, sanskriti*, 6(11), 117-153.
- Deshpande, S.(with Apoorvanand) (2018). Exclusion in Indian higher education today. Ed. *Centre for Equity Studies*, pp.191-218. : Yoda Press.
- Palriwala, R. (2019). Gendering sociology, a sociology of gender or studying women?: Some reflections, In *Critical themes in Indian sociology*. *Critical themes in Indian sociology*, Eds. Sanjay Srivastav, Janaki Abraham and Yasmeen Arif. : *Sage Publications*.

Palriwala, R. and N. Neetha. (2018). Family policy in India: Contradictions, continuities and change. *Handbook of family policy*. Eds. G. Björk Eydal and T. Rostgaard. Cheltenham, UK: Edward Elgar.

Palriwala, R. (2018, June 21). Revisiting a 'Lost' Field. Posted on *Global economy and culture. Leiden Anthropology Blog*. Available at <http://www.leidenanthropologyblog.nl/articles/revisiting-a-lost-field/>

R. Palriwala (With Kaur, R).(Eds.). (2018). *Marrying in south Asia: Shifting concepts, changing practices in a globalised world Delhi*: Orient Blackswan. Paperback Reprint.

Palriwala, R. (2018). Transitory residence and invisible work: Case study of a Rajasthan village. In *A Handbook of Rural India*. Ed. S. S. Jodhka, pp. 317-336. : Orient Blackswan and EPW.

Palriwala, R. (2018). Acts of omission and acts of commission: The adverse juvenile sex ratio and the indian state.

Too many men, too few women: Social consequences of gender imbalance in India and China. Ed. Ravinder Kaur. Delhi: Orient Blackswan. Paperback reprint.

Sundar, Nandini. (2018, 2019). *The Burning Forest: India's War in Bastar*. London: Verso. (Also Gujarati and Tamil editions).

Sundar, Nandini. (2019, March 24). "We, the People" are More than a "Traffic Jam". Blog on Judith Butler's 'Notes Toward a Performative Theory of Assembly, Available at <http://blogs.law.columbia.edu/praxis1313/nandini-sundar-we-the-people-are-more-than-a-traffic-jam/>

Sundar, Nandini.( 2018). From Delhi to Iran via America: Reflections of an Indian Anthropologist. *American Anthropologist*, 120(1), 151-152.

Meenakshi Thapan. Ed. (2019) *J. Krishnamurti and educational practice: Social and moral Vision for inclusive education* Delhi, Oxford University Press.

Vasan, S. (2018). Ecological crisis and the logic of capital. *Sociological Bulletin*, 67(3), 1-15.

Vasan, S. (2018). Consuming the tiger: Experiencing neoliberal nature. *Conservation and Society*, 16(4), 481-492.

Vasan, S, Nandan, N, Kothari, A. (2018) *Situating agroecology in the environment–development matrix. Economic and Political Weekly*, 53(41), 50-51.

## **Journals**

### **Number of Department faculty members serving as Editor(s)/Member(s) of Editotial Board**

Editor/Associate Editor – Three teachers serving in three journals

/Members of editorial boards- Seven teachers Serving in twenty five journals

## **Research Projects**

Radhika Chopra

ESRC-ICSSR Collaborative Research Program on Urban Transformations in India.

University of Edinburgh Project "From the Margins: Low Income Migrants Access to Basic Services and Provisions: Jullundur and Guwahati" Radhika Chopra Norway Research Council. May 2018-current. INR 2500000.

Indian Cosmopolitan Alternatives: Ritual Intersections and the Proscription of Religious Offence Radhika Chopra May 2014-Sept 2019. INR 2550949



## **Seminars Organised**

Total No of seminar organised-19

Satish Deshpande, Professor of Sociology, Department of Sociology, , presented a paper at the Sociological Research Colloquium entitled “The Curious Conceptual Career of the ‘vote bank’” on Friday, 7th September, 2018.

Roma Chatterji, Professor of Sociology, Department of Sociology, , presented a paper at the Sociological Research Colloquium entitled “Super Hero Comics and Vernacular Culture” on Friday, 14th September, 2018.

Dietrich Reetz , Professor of Sociology, PI, Berlin Graduate School Muslim Cultures and Societies, Freie Universität Berlin presented a paper at the Sociological Research Colloquium entitled “Between Knowledge, activism and the global market: international students at Islamic madrasas and the International Islamic University in Pakistan and India ” on Friday, 28th September, 2018.

Radhika Chopra, Associate Professor, Department of Sociology, presented a paper at the Sociological Research Colloquium entitled 'Bazaar Divinity: The Shrine Bazaars of Amritsar' on Friday, 26th October, 2018.

Dolly Kikon, senior lecturer, School of Social and Political Sciences, University of Melbourne presented a paper at the Sociological Research Colloquium , 'Carbon fantasies and aspirations along the foothills of Assam and Nagaland' on Friday, 2nd November, 2018.

Farhana Ibrahim, Associate Professor of Sociology, Indian Institute of Technology, Delhi presented a paper at the Sociological Research Colloquium , 'Remembering 1971 in Gujarat: Citizenship and (in)security across civil-military terrains' on Friday, 16th November, 2018.

Yael Berda, Assistant Professor of Sociology and Anthropology, Hebrew University presented a paper at the Sociological Research Colloquium entitled ‘The file and the checkpoint: How bureaucracy made suspicious citizenship ’ on Friday, 15th February, 2019.

Oishik Sircar, Assistant Professor, Jindal Global Law School, O.P. Jindal Global University, Sonipat presented a paper at the Sociological Research Colloquium entitled ‘Bollywood's Law: Cinema, Justice and the Gujarat 2002 Mass Violence ’ on Friday, 22nd February, 2019.

Ishita Dey, Assistant Professor, Department of Sociology, South Asian University, Delhi and Mohammad Sayeed, Assistant Professor, Department of Sociology, Indraprastha College for Women, presented a paper at the Sociological Research Colloquium entitled ‘Smell and the city : Towards an ethnography of ‘nose’ on Friday, 15TH March, 2019.

Kapil Raj, Research Professor of history of science at the École des Hautes Études en Sciences Sociales, Paris and currently visiting professor in the School of Humanities and Social Sciences of Shiv Nadar University presented a paper at the Sociological Research Colloquium entitled ‘Go-Betweens in the Social Sciences, Humanities, and Science Studies’ on Friday, 29th March, 2019.

## **Conferences Organised**

On 7 April, 2018 the Department organized a WORKSHOP ON READING MARX'S CAPITAL. Papers presented included: “Interpreting the Value-Form in Marx”; “Ikkisvi Sadi Mein Marx Ki Poonji”; “Reading Capital After Climate Change: Materialist Dialectics and the Human-Nature Relationship” and “An Apprenticeship in Time: Doctoral Research and Learning to Labour in Academia

An annual VKRV RAO Memorial lecture Series in DSE has been initiated by Prof Meenakshi Thapan, Director, DSE. The first lecture was delivered by Prof Mahesh Rangarajan (Ashoka University, Sonapat) on March 14, 2019, on the theme: “Nature’s Nation: Ecology, History and Society in Independent India”.

## Seminar/Conference Presentations (National/International)

Abraham, Janaki,

'Turning a feminist eye on gender, caste and kinship', Plenary speaker, Indian Sociological Association Conference, Mysore, 26-29<sup>th</sup> December, 2018.

'Role models and Restrictions: The influence of neighbours and the production of gender in a town in North India'. Paper presented in absentia at the International Union of Anthropological and Ethnological sciences (IUAES) Florianópolis, Brazil, 16-20 July 2018.

Arif, Yasmeen

Conference and workshop of the Scientific Committee for the Humanitarian Encyclopedia Project. The Graduate Institute, Geneva, Switzerland, 19th -20th November 2018.

For an Aesthetics of Identity, Or, Against the Fetish of Difference. Workshop on "Fantasies, Anxieties, Difference: The Figure of the Other in the Aftermaths of Violent Political Transformation". Max Planck Institute for the Study of Religious and Ethnic Diversity, Gottingen, Germany, May 3 - 4th, 2018.

Roma Chatterji

"Superhero Comics and Vernacular Culture." Creative Theory Colloquium. IIC, Delhi 5th-6th September 2018.

"From Comic Book to Folk Performance." Graphic Storytelling in India. Kiran Nadar Museum of Art and Ambedkar University, Delhi 22th-24th November 2018.

Chopra, Radhika

Ziddi Munde- 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.

Visualising the Bylanes of Labour- Amritsar and Jalandhar. University of Washington, Ambedkar University and USEFI, Workshop on Rural- Urban Entanglements in India. Delhi, April 2018.

Abhijit Dasgupta delivered keynote address on "Law and People on the Margins" in an International Conference on Social Science and Law held in Barishal University, Bangladesh on 13-14 March, 2019.

Deshpande, Satish.

Indian Institute of Management, Kolkata. Fellows Programme, Annual Research Workshop. Invited lectures: "Caste Today" and "Contemporary Populism". 13 May 2018.

United Theological College, Bengaluru. 2nd Dr. K.C. Abraham Memorial Seminar. Keynote Address: "The autonomy and accountability of religions: Academic perspectives on majority, minority and market in the Modi-yuga", 16 June 2018.

Azim Premji University, Bengaluru. Advanced Graduate Workshop. Invited lecture: "Affirmative Action in the Context of Caste", 16 July 2018.

Centre for Studies in Social Sciences, Kolkata. 8th Anjan Ghosh Memorial Conference on Politics, Rumour and the Media. Presentation: Digital rumour in the age of Alternative Facts. 21 July 2018.

Harvard University Center for Chinese Studies and South Asia Institute, Panel discussion on Meritocracy in China and India, IIC, Delhi. Panelist. 28 November 2018.

South Asian University, Delhi. Panel on Development & Democracy in South Asia, Panelist. 22 February 2019.

Jawaharlal Nehru University, Centre for Historical Studies. Book discussion on Neeladri Bhattacharya's *The Great Agrarian Conquest: The Colonial Reshaping of a Rural World*. Presentation: "*Village and caste in The Great Agrarian Conquest*". 28 November 2018.

Palriwala, Rajni

Invited lecture: "*Gendering displacements: Women's place making in modernity*", at the national symposium on the retirement of Sobha Nair at the University of Kerala, Trivandrum on 22 March 2019.

Keynote address "*Socialities of Care and Labour: Migration, Gender, and Agency*", at the conference on Care, Migration, Gender – Ambivalent Interdependencies, Humboldt University, 30 January-1 February, 2019.

Paper entitled "*The Ordinary and the Extraordinary of Gendered Displacements*", at the conference on Modalities of Displacement in South Asia, organised by Leiden University, Leiden Institute for Area Studies, Institute for Cultural Anthropology and Development Sociology, International Institute for Asian Studies, Leiden Global Interactions, Asian Modernities and Traditions and held at Leiden University, 14-15 June, 2018.

Sundar, Nandini

Violence, Militarism and the Law: A brief history of dispossession. Gravensteen Lecture, University of Leiden, 15 June 2018

Academic Freedom and Indian Universities, ZMO, Berlin, 28 June 2018

Universities as Sites of Power, Violence (and Justice?) Presidential Plenary Panel, International Sociological Association, Toronto, 16 July 2018

Panelist in Book Release Discussion on RohitDe's *People's History of the Indian Constitution*. India International Centre, 10th January 2019.

Keynote address: Violence, Militarism and the Law, National Seminar on Rethinking Development and Displacement in India. Department of Sociology, KTHM College, Nasik, 24 January 2019.

Panelist, Girish Sant Memorial Event on "Role of Civil Society Organizations in shaping Public Policy and Discourse", Prayaas, Pune, 9th February 2019

Keynote address: Sociology Engagements with State, Society and Academia. Malayalam University, Thiru, Kerala, 27th February 2019

Discussant, Book on Deviance, University of Nicosia, Cyprus, 2-3 March 2019.

Panelist, Assembly, Critique & Praxis 13/13, Columbia Centre for Contemporary Critical Thought, Columbia University, New York, 27th March 2019.

M.N Tandon Memorial Lecture, Agra, 6th April 2019.

Vasan, Sudha, Keynote Address: The Work of Making Nature. At Entangled Natures, Conference organized by School of Human Ecology, Ambedkar University, Delhi, 15<sup>th</sup> February, 2019.

**Students under exchange Programme: 1**

Lauren Nippoldt, Fulbright Nehru Researcher. [inbound] 2019-ongoing.

### **Extension and outreach activities**

Abhijit Dasgupta presented a paper on "The Local and the Global in Rural Bengal" in a workshop on 'Negotiation between the Local and the Global' held at the A.B.N. Seal College, Cooch Behar, West Bengal on February 13, 2019.

Abraham, Janaki

'Power and Purity: Some reflections on gender, caste and kinship', A Public lecture, University of Hyderabad. March 2019.

'Understanding the intersection of caste, class and gender: A lecture to B.LeD students. Jesus and Mary College, Delhi University. April 2019.

UGC SAP Visiting fellow at the Sociology Department, University of Hyderabad. 4 -8th March 2019.

Conducted a Writing Workshop for Research Students at the Sociology Department, University of Hyderabad. March 2019.

Gave two lectures on the theme 'Queering marriage and the family in India' to BA students at the University of Hyderabad.

Participated in a Round table discussion on Family Photographs. School of Arts and Aesthetics, JNU. 22nd February, 2019.

Delivered a lecture titled 'Visualising kinship' at the ICSSR Research Methodology Course on 'Participatory Digital Methodologies and Ethnographic Filmmaking', Department of Anthropology, Delhi University, Delhi. 24th January, 2019.

Speaker at a Roundtable Discussion on Gendering the Indian Smart City: Contexts, Challenges and Future Directions as part of a day long workshop on Gendering the Smart Safe City, 13th December, 2018.

Caste and Gender: A lecture to College Teachers at Faculty Development Programme at Hansraj college Faculty Development Centre, Delhi University, Delhi. 29th November, 2018.

Roma Chatterji

"9/11 and Folk Art.", "From Comic Book to Folk Performance." Two lectures at Research Methodology Workshop on Participatory Digital Methodologies and Ethnographic Filmmaking. Department of Anthropology, Delhi University, 14th-24th January 2019.\

"Myths, Similies and Memory Traces. Images of Abduction in the Ramayan Universe." Utopia: Sociology Festival, Miranda House, 8th February 2019.

Panel Discussion on 'Living and Dying. Meanings in Maithil Folklore.' By Dev Nath Pathak. Nehru Memorial Museum and Library, 22nd February 2019.

Chopra, Radhika

Organized Inception Workshop: Exploring Low Income Migrants Access to Services, ESRC-ICSSR Project. and University of Edinburgh. 13 July, 2018, IIC, Delhi. [12 speakers]

Organised Writing Workshop. 25-20 March, 2019, Project 'Cosmopolitan Alternatives; University of Bergen and . [8 members of project team], Norwegian Centre, Delhi.

Organised Data Analysis Workshop. ESRC-ICSSR Project. and University of Edinburgh. 22-24, March 2019. Kathmandu, Nepal [8 members of project team]

Deshpande, Satish

Ajit Foundation, Bikaner, Rajasthan. Invited public lecture (in absentia, via recording): Jati kyon nahin jati. 8 April 2018.

Delhi University, Ramlal Anand College. Ambedkar Memorial lecture: “Ikkeesvi sadi mein jati ka vinaash”, 12 April 2018.

East-West Society, Patna. The First Vinay Kumar Kanth Memorial Lecture, “Aakhir Vishwavidyalay Kyon? Teen Sadiyon ke Pratipadak Tark”. 20 July 2018.

Department of Philosophy. Invited Talk: “Moral luck and the ethics of identity”. 31 August 2018.

Central Institute of Education, Delhi University. Invited Lecture: “The question of language in higher education”. 5 September 2018.

Delhi University, Dept of Adult, Continuing Education and Extension. German Exchange Programme. Invited lecture: Reservation, Gleichstellung and Women’s Rights: Indo-German Comparisons. 14 September 2018.

Kerala Sahitya Akademi. Payyanur, Kerala. *Rakta Sakshyam public lecture series on the 70<sup>th</sup> Anniversary of the Martyrdom of Mahatma Gandhi*. Invited public lecture: Remembering Gandhi’s martyrdom in a time of normalised communalism. 30 September 2018.

Indira Gandhi Institute of Development Economics, Mumbai. Invited Lectures: “Two lectures on caste inequality for economists”. 15-16 October 2018.

Jawaharlal Nehru University, School of Languages, Kannada Studies Chair. Karnataka Rajyotsava Celebration. Panel on *The Idea of Karnataka*. Panelist. 27 November 2018.

Public Meeting on *Dissent and Democracy*. Constitution Club, Delhi. Co-Organiser (with Romila Thapar, Prabhat Patnaik, Maja Daruwala and Devaki Jain). 1 December 2018

Tokyo University of Foreign Studies, Tokyo. Conference on Inclusive Development in South Asia. Invited paper: “Higher education and the future of inequality in India”. 15 December 2018.

Safdar Hashmi Memorial Trust (SAHMAT) Public Lecture Series *Commemorating 150 Years of Gandhi*. India Habitat Centre, Delhi. Lecture: “The decisive decade: Ambedkar, Gandhi and caste in the 1930s”. 8 December 2018.

Indian Institute of Technology, Chennai, Department of Humanities & Social Sciences. Invited Lecture: “Four moments in the career of caste”. 2 February 2019.

Delhi University, Daulat Ram College, Department of Political Science and Delhi University Human Resource Development Centre. Invited lecture: “Methodology as persuasion”. 5 March 2019.

Gargi College, Delhi University, Gandhi Study Circle. Invited Lecture: “The mahatma as mortal: Mohandas Gandhi and his struggles with caste”. 7 March 2019.

Shiv Nadar University, Dadri, Gautam Buddha Nagar. Water Science & Policy Program. Invited Lectures: “Two Lectures on Caste as Discrimination”. 15 March 2019

Centre for the Study of Developing Societies, Delhi. Discussion-Workshop (no formal papers) on: *Language, Knowledge Production and Social-Cultural Capital: History and Contemporary Reality*. Participant. 25-26 March 2019.

Jawaharlal Nehru University, Zakir Hussain Centre for Educational Studies. Invited public lecture: “Higher Education and the Future of Inequality”. 25 March 2019

Vasan ,Sudha

Organized a 'Ridge Walk' for MA students of the Ecology and Society Class with Amita Baviskar as Resource Person. 3rd November 2018.

'Is Feminism Passe? Agency/Structure and Neoliberal Capitalism'. Invited Lecture at Swabhiman 2018, WGDS Cell, Hindu College, Delhi University. 5<sup>th</sup> April, 2018.

Arif, Yasmeen

Life in A Suicide Note, For a Politics against Identity. Friday Research Colloquium, Department of Sociology, . January 11th, 2019

Opening Panel Discussion. Inauguration of the School of Art and Architecture, Jindal Global University. "When is Architecture?" India Habitat Center, , May 15th, 2018.

Life, Emergent: The Social in the Afterlives of Violence. Panel discussion on the book with author, Jindal Global University, April 23rd, 2018.

Participating faculty at the "Travelling Classroom. I", Indian Institute of Technology - Delhi Contemporary 5 day Classroom on "Self, Techne and Biopolitics", 17th- 21st January 2019.

The World Wide Web. Classroom Workshop for the Sociology of Science Course. With Amaan Shreyas (Mphil) and Karandeep Mehra (Alumni), 23rd March 2019.

Invited Participant. Creative Criticality in Colonial and Indigenous Archives. The University of Chicago Center in Delhi, 22nd - 23rd April 2019.

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

Ph.d.- 10

M.Phil.-30

**Faculty Strength:**

Professors-6

Associate Professors-5

Assistant Professors -5

**Other significant information**

Abhijit Dasgupta is Chancellor's nominee at the Presidency University, Kolkata.

Radhika Chopra, Member, National Selection Committee, Fulbright-Nehru Grants

Rajni Palriwala

Visiting Professor, Institute of Cultural Anthropology and Development Sociology, Leiden University, NWO (National Scientific Research Organisation), Netherlands (March-July 2018).

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, working on crop insurance. Supervised 4 students of the department in short fieldwork projects on varied aspects of insurance

Within the rubric of a Leiden university project, entitled Postcolonial Displacements: Migration, Narratives and Place-Making in South Asia, collaborated with Dr. Erik de Maaker, Leiden University, Faculty of Social Sciences, Department of Cultural Anthropology and Development Sociology, in an

NWO (Dutch Scientific Research Council) funded professorship for research on 'Gendered Displacements: The Ordinary and the Extraordinary in Women's Life History Narratives'.

Minor Cosmopolitanisms. International Research Training Group of University of Potsdam, Freie University, Berlin, and Humboldt University with University of New South Wales, Macquarie University, University of Cape Town, University of Pretoria, York University, Duke University and IFLU, Hyderabad. Co-supervisor of Irene Hilden, registered at Humboldt University, working on 'Absent Presences in the Colonial Archive: Dealing with the Berlin Sound Archive's Acoustic Heritage'.

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## COLLEGES

### ACHARYA NARENDRA DEV COLLEGE

#### Major Activities and Achievements

Acharya Narendra Dev College was ranked 24<sup>th</sup> at all India level under the college category in NIRF 2019 rankings by MHRD, Govt. of India and ranked 22<sup>nd</sup> among Best Science Colleges for 2018-19 in India by 'India Today' survey. Five faculty members have been recognized for their contributions to Science and Society. Four students have bagged merit positions in University examinations and 13 have got merit positions at South Campus level. Kajal Pandey won Gold Medal in 20Km Walk and Devendra won Bronze Medal in Javelin Throw at University Sports meet. Mayank Aggarwal got First position in Delhi State Yoga Championship. This year two new scholarships – Asha Walia scholarship and Urmil Gupta scholarship have been instituted. College continued to fund its Flagship Schemes- SAKSHAM (financial assistance to students), ELITE (Summer fellowships), EXPLORE (excursion to all second year students) and Annual Theatre Production (ATP). College continued to provide a funding of Rs.15000/- per annum to each of fifteen research laboratories in the college under Research Contingency Grant.

#### Honours/Distinctions

Dr. Savithri Singh (Ex-Principal) was awarded 'Exceptional Women of Excellence' at Women Economic Forum-2018.

Dr. Urmi Bajpai, Department of Biomedical Science was awarded Indian National Science Academy (INSA) Teachers Award 2018.

Dr. Seema Makhija, Zoology Department, received Best College Lecturer award by Directorate of Higher Education (DHE), GNCTD for 2018-19.

Dr. Satyapal Singh, Dronacharya Awardee was recognized by GNCTD for his contributions.

Dr. Charu K. Gupta, Botany Department was selected for INSA Bilateral Exchange Programme-2019 and visited Slovenia for two weeks.

The College was awarded 'Plastic Free College of the Year Award' at National Environment Convention-2018 by Indian Institute of Ecology and Environment, New Delhi.

#### Students with Distinctions

Purva of B.Sc. (Hons) Biomedical Science I year was awarded first rank in the University.

Rohini Bhatt of B.Sc.(Hons) Biomedical Science I year was awarded third rank in the University.

Rahul Chawla from B.Sc. (Hons) Electronics I year was awarded first rank in the University.

Ashwani Varshney from B.Sc. (Hons) Computer Science II year was awarded third rank in the University.

13 students bagged merit positions at University of Delhi South Campus (UDSC).

## Publications

- Abraham, J. S., Sundaram, S., Maurya, S., Makhija, S., Gupta, R., Toteja, R. (2019). Techniques and tools for species identification in ciliates: A review. *International Journal of Systematic and Evolutionary Microbiology*. DOI 10.1099/ijsem.0.003176.
- Chetna; Kumar, S., Garg, A., Chowdhuri, A., Jain, A., Kapoor, A. (2018). Structural and optical properties of electrochemically deposited ZnO nanorods by using graphene oxide and ITO as substrate material: A comparative study. *Mater. Res. Express* 5 095024 doi.org/10.1088/2053-1591/aad7a5.
- Chugh, H., Sood, D., Chandra, I., Tomar, V., Dhawan, G., Chandra, R. (2018) Role of gold and silver nanoparticles in cancer nano-medicine. *Artificial Cells, Nanomedicine, and Biotechnology* (Taylor and Francis Publishers, UK) DOI: 10.1080/21691401.2018. 1449118.
- Dagar, V.S. and Kumar, S. (2018) Emamectin Benzoate: Potential larvicide and antifeedant agent against cotton boll worm *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Journal of Applied and Natural Sciences*, 10(2): 564-571.
- Eniyan, K., Dharavath, S., Vijayan, R., Bajpai, U., Gourinath S. (2018). Structure of UDP-N-acetylglucosamine-enolpyruvate reductase (MurB) from *Mycobacterium tuberculosis*. *Biochimica et Biophysica Acta (BBA)- Protein and Proteomics*. 1866 (3): 397-406.
- Gupta, C. K., Singh, J. P., Chopra, P., Raj, V.B., Chowdhuri, A. (2018) Gauging the nature and magnitude of Particulate Matter (PM) concentrations in Bengaluru, the IT capital of India. *DU Journal of Undergraduate Research and Innovation*. 3(2): 71-81.
- Khanna, L., Khanna, P. and Jain, S.C. (2018). A concise synthesis of 2-alkenyl-3-phenyl-4H-chromen-4-ones via novel C-C bond formation using sulfone as potential intermediate. *Ind. J. Chem.* 57B: 945-954.
- Lal, S., Kumar, S., Hooda, S., Kumar, P. (2018). A highly selective sensor Cu<sup>2+</sup> and Fe<sup>3+</sup> ions in aqueous medium: Spectroscopic, computational and cell imaging studies. *Journal of Photochemistry and photobiology: Chemistry*. 364: 811-818.
- Somasundaram, S., Abraham, J. S., Maurya, S., Makhija, S., Gupta, R., Toteja, R. (2018) Cellular and molecular basis of heavy metal induced stress in ciliates. *Current Science* 114: 1858–1865.
- Saxena, R., Kaur, S., Bhatnagar, V. (2018). Social centrality using network hierarchy and community structure. *Data Mining and Knowledge Discovery*. 32(5): 1421-1443.

## Journals

Number of college teachers serving as Editor(s)/ Member(s) of Editorial Board: 09 (Reviewers)

## Research Projects

DST (Indo-Slovenia joint project), 2015-2018, entitled “Exposure-Response Assessment of Ambient Air Pollution (AAP) and Hg contamination in Affected Cities of India and Slovenia: A Comparative Study”. Dr. Arijit Chowdhuri (Principal Investigator), Dr Savithri Singh (Co-PI) Dr. Charu K. Gupta (Co-PI). Amount 16.11 lakhs.

DST Women Scientist Scheme-B Project, 2018-2021, entitled “Developing and documenting innovative practices for learning physics and biology through experimentation for children and young adults” Dr. Sarita Kumar. Amount 12.6 lakhs.

SERB-DST, 2018-2021, entitled “Recombinant endolysins from mycobacteriophages: Exploring their anti-Mycobacterial potential” Dr. Urmi Bajpai. Amount 46.702 lakhs.



### **Seminars Organized**

Dr. Anurag Agrawal, Director IGIB (CSIR), Demystifying myths surrounding human health, 31 January 2019

Dr. Ganesh Bagler, IIT, Delhi, Computational Gastronomy, 14 February 2019.

Mr. Rohit Gambhir, Lead in Mobile Application Development, Current trends in Mobile Application Development, 20 September 2019.

Prof. Hark Hoe Tan, Research School of Physics & Engineering, Australian National University, Canberra, Australia, Nanotechnology – Applications in Optoelectronics and Renewable Energy, 31 January 2019.

Dr. Shailja Singh, Associate Professor, Special Center for Molecular Medicine (SCMM), Jawaharlal Nehru University, Contemporary Approaches in Antimalarial Drug Discovery', 10 October 2018.

### **Conferences Organized**

Organized an International Symposium entitled “Ciliate Biology 2018” in collaboration with Maitreyi College and SGTB Khalsa College, University of Delhi during 4 to 6 April 2018. Funding agencies: ISOP, IUBS, INSA, DBT, DST-SERB, CSIR, ICMR, DRDO and ZSI.

Organized an Education Conclave entitled “Education Deconstructed: Dialogues with Experts” on 2 November 2018.

Organized a “Mini Symposium on International Women’s Day” on 8 March 2019 in collaboration with CSIR for raising awareness and highlighting women’s achievements.

### **Seminar/Conference Presentations**

Urmi Bajpai presented her work entitled, “Functional Characterization of Lysin A& B from New Delhi Mycobacteriophages, virulent against *Mycobacterium tuberculosis*” in the European Molecular Biology laboratory (EMBL) Workshop on ‘Viruses of Microbes’ held at Wroclaw, Poland during 9 to 13 July 2018.

### **National/International MoU Signed**

MoU signed with Azim Premji University, a private University established under the Azim Premji University Act, 2010, Electronic City, Bangalore.

MoU signed between Acharya Narendra Dev College (ANDC) and Translational Health Science and Technology Institute (THSTI), Faridabad for Science Setu Programme.

### **Placement Details**

Number and percentage of students placed: 57 (35% 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.

### **Library Development**

The Radio Frequency Identification (RFID) based Library Management System continues to facilitate faster transactions for the library. Self- checkout service and external book return/ book drop stations are great ways to avoid queues at the Circulation/Reserves Desk during peak periods. A two-day Annual Book Exhibition from September 10-11, 2018 was held in the college library for the faculty and students. Approximately 950 new books were added to the library this year.

### **Faculty Strength**

Total permanent: 72 and Principal

Total Ad-hoc 57 (Odd Sem); 54 (Even Sem)

### **Financial Allocation and Utilization**

Grant Sanctioned: Rs. 439699923.00/-

Grant Utilized: Rs. 354160152.00/-

### **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 and Dr. Ravi Toteja recognized as Ph.D. research supervisors from University of Delhi. One Post-doctoral fellow, one Research Associate and 23 Ph.D. research scholars are currently enrolled in ANDC in six different departments. This year four students have submitted their Ph.D. thesis. 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 Rs. 1,000/- per month.

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## **ADITI MAHAVIDYALAYA**

### **Major Activities and Achievements**

This academic year has been a year of active growth and fulfillment of our students in various sphere of life. The College organized its first ever academic fest "Quest", apart from its annual cultural fest "Utsav" which held each year. On the occasion of silver jubilee year of the college, a five day cultural event Utsav from 25 February to 1 March 2019 was organised. "Ourunodoi 2019" under 'Ek Bharat Shreshtha Bharat' an initiative of the Ministry of HRD, Govt of India was held on 12 March 2019. A cultural exchange programme between Directorate of Primary Education (*Samagra Siksha Abhiyan*, H.R.D.D., Sikkim) and Aditi Mahavidyalaya, was organised under *Ek Bharat Shreshtha Bharat* initiative. A team of 21 students and 5 teachers were part of this programme. The cultural committee sent seven students and teachers to participate in the grand Ardh Kumbh 2019 – "the world's largest congregation of religious pilgrims" – to Prayagraj, Uttar Pradesh.

### **Honours/Distinctions**

Dr. Mamta Sharma, Principal, was honoured on behalf of college with 'Plastic Free College of the Year' on World Environment Day by Indian Institute of Ecology and Environment and NICER, on 5 June, 2018.

Dr. Mamta Sharma, Principal, was honored with 'Lifetime Achievement Award' on occasion of United Nation Teacher's Day by Confederation of Indian Universities CIU, The Educational Standards and Testing Council of India, National Institute of Cleanliness, Education and Research NICER, IIEE, on 5 October, 2018.

Dr. Neenu Kumar was the recipient of Social Worker and Nutrition Educationist Award at the National Conference on Public Health and Nutritionology organized by Nutrition and National Health Sciences Association, held at India International Centre, Delhi, April 30, 2018.

Dr. Archana Sawshilya received Best Teacher Award for the year 2017 from Directorate of Higher Education, Govt. of NCT of Delhi, 18 March, 2019.

### **Students with Distinction**

Koyal of B.A. Programme I year received a gold medal in Judo during the Common wealth Judo Championship 2018.

Seema of B.A. Programme I year received a silver medal in Taekwondo during the 2<sup>nd</sup> Open International Taekwondo Championship 2018.

Sanjana B.A.(Hons) Hindi Patrikarita I year received a gold in yoga during the 3<sup>rd</sup> National Yog Sports Championship 2018-19.

Meenakshi Pal of B. El. Ed IV year secured I rank at University Level.

Pooja Siwatch of B. El. Ed III year secured I rank at University Level.

### **Publications**

Dabas, N. R. (2018). Impact of Active and Independent Board on the Growth of the Life Insurance Companies in India. *Impact: International Journal of Research in Humanities, Arts and Literature*, ISSN: 2347-4564, Volume 6 Issue.

Goel, N. (2019). Shaping Mathematics Classroom through Funds of Knowledge. In *Proceedings of the Tenth International Mathematics Education and Society Conference (MES10)*, edited by Jayasree Subramanian, ISSN: 2077-9933, Published by MES10, Printed by Sri Satya Sai Designing Studio Pvt Ltd., Hyderabad, India.

Jain, S. (2018). Behavioural Issues in Children Living with HIV and AIDS. *International Journal of Human Resources and Social Sciences*. ISSN (O) 2349-4085.

Kumar, N. (2018). Beyond Borders: Universality of Shakespeare through Avante-garde Adaptation of *Hamlet* into *Haider*. *A Media Circus: The Study on Modern Media & Literature*. Ed. Nagraj G. Holeyannavar. New Delhi: Crescent Publishing Corporation, ISBN 978-81-8342-482-0. Pp. 149-162.

लोमेश, मधु (2019), पुस्तक प्रकाशन: 'जनमाध्यमों की भाषा' -- ISBN No -978-93-82662-00000, हिमाद्री प्रकाशक, शाहदरा, दिल्ली.

Patra, P. (ed.) (2019). Smart Agriculture: A Blend of Ancient Wisdom and Modern Technology, Rawat Publications, Jaipur.

Number of faculty serving as editors: 3

### **Seminars Organized**

Dr. Hem Chand Jain, Vice Principal, Deen Dayal Upadhyaya College, 'Tally – E.R.P. 9', 24 August 2018.

Mr. Anil Chopra, Group Director, Corporate Affairs, Bajaj Capital, 'Career in Finance', 29 January 2019.

Dr. Saurabh Sharma, Medical Superintendent, Ayurveda and Panchakarma Specialty, Maharishi Ayurveda Hospital, Perspectives on Health and Well Being in India, 21 February 2019.

प्रोफेसर रमेश गौतम, श्रीमती वसुधा गुप्ता, श्री प्रिय रंजन झा, श्री मनीष आजाद, हिंदी विभाग, दिल्ली विश्वविद्यालय, ए डी जी, प्रकाशन विभाग, सहायक संपादक, नवभारत टाइम्स, रेडियो जॉकी, एफ एम रेनबो, विकास के मुद्दे और हिंदी मीडिया', 29 मार्च 2019.

Dr Daya Pant, former Head Department of Counselling, NCERT, "Psychological testing and counselling camp for mental health", 20 February 2019.

### **Conferences Organized**

National Conference on "*Gandhian Vision and Environment*", Eco Club, Delhi Govt. & Gandhi Bhawan (D.U.) 6-7 March 2019.

National Conference on "E-Waste Management & Swachh Bharat Mission" sponsored by University Grants Commission held on 10 April 2019.

### **Seminar/ Conference Presentation**

Nitu Rana Dabas presented a paper entitled, "Impact of E-Banking on Indian Banking Sector" during the National Seminar on "Governance in E-Commerce: Contemporary Issues & Challenges" organized by Department of Commerce, Maharshi Dayanand University, Rohtak, Haryana held on 27-29 March 2019.

Nidhi Goel presented a paper entitled, "Shaping Mathematics Classroom through Funds of Knowledge" during the 10<sup>th</sup> International Mathematics Education and Society Conference hosted held at University of Hyderabad, Hyderabad from 28 January to 2 February 2019.

Rashmi Gupta presented a paper entitled, "A Survey of Objectives of Physical Education Curriculum Amongst Physical Education Professionals" during an International Conference on Olympic and Indian Values In Global Context organized by Kirori Mal College, University of Delhi from 25 to 27 September 2018.

Sadhna Jain presented a paper entitled, "Stress and Coping Mechanisms of adolescents" in the International Conference organized by Aditi Mahavidyalaya on 'Education, Health, literature and Media' on 31 October 2018.

Neenu Kumar presented a paper entitled, "The Peripheral and the Marginalized: Depiction of the Disabled in Hindi Cinema" at the National Conference on (Re) Defining Marginalities held at Zakir Hussain College (Evening), University of Delhi on 16 March 2019.

Archana Sawshilya presented a paper entitled, "One family one God" in Round Table conference, organised by IIEE, Global Peace Foundation, India International Centre, New Delhi on 16 February 2019.

### **Students Under Cultural Exchange Programme**

21 Students went to Sikkim under cultural exchange programme in March 2019.

### **Placement Details**

Number of companies/industries visited for campus recruitment: around 10. Companies like the Ropio foundation (NGO), Best RPO, Saksham Foundation, Eckovation, Sharekhan.com, Amazon Ltd., Genpact, Navig8, Shahi Exports etc. With many of them being able to grab the offer letters of placement.

### **Library Development**

Six hundred and twenty new books were added in this academic session. Computers were also installed. The automation of library is under process.

### **Faculty Strength**

Total faculty strength:100

### **Financial Allocation and Utilization**

sanctioned: Rs. 21.78 Crore (Approx.)

Grant utilized: Rs. 22.40 Crore (Approx.)

### **Other Significant Information**

Reading Hall of the college library and conference room were renovated. Six additional class rooms were constructed in the campus. Canteen block with NCC, NSS and Student's Union Room were constructed. College collaborated with YWCA to start short term courses.

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## **AHILYA BAI COLLEGE OF NURSING**

### **Major Activities and Achievements**

Ahilya Bai College of Nursing is affiliated to Lok Nayak Hospital for its clinical training and function under the administrative control of Govt. of NCT of Delhi.

### **Students with distinction**

College students were awarded first and second prize of Rs. 1,500/- cash, a certificate and a memento in poster making competition during the occasion of World Kidney Day organize by RML hospital and AIIMS on 13 and 14 March 2019.

Students were awarded with a third prize of Rs 1,000/- cash and a certificate and consolation prize of Rs. 500 /- and a certificate in Slogan making competition during the occasion of World Kidney Day organize by RML hospital and AIIMS on 13 and 14 March 2019.

In AIIMS Intercollegiate Competition Trouvaille 2019 the college was awarded First Prize in Dance Competition, First Prize in Quiz, First prize in Debate and Third prize in Pebble Painting.

In Lady Harding Medical College, in the intercollegiate folk dance competition our students won First Prize.

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## **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. The Institute completes a successful journey of 20 years and our quest to achieve excellence will continue. All our MPT students have presented papers and posters on their research projects

at various national conferences held in Delhi. A cleanliness drive was organized on 2<sup>nd</sup> March 2019 in the nearby public park and service lanes in front of the college. Students from BPT 1<sup>st</sup> to 4<sup>th</sup> year volunteered to be a part of this drive. The students cleaned the park and the lane with brooms. Students completed the task of cleaning in 3 hours. The collected waste was segregated into dry and wet waste and further disposed-off to nearby municipal disposing area. The main purpose of the drive was to create awareness among the general public and students of the institute regarding cleanliness and its benefits. Students showed their dedication towards “Swachh Bharat Abhiyaan” by taking a pledge to continue the cleanliness drive in nearby localities.

### **Outstanding Honors/ Distinction**

Dr Raju K Parasher was awarded Lifetime Achievement Award for excellent contribution in the field of physiotherapy at Neuraxis Conference held on 29<sup>th</sup> and 30<sup>th</sup> September 2018

Dr Raju K Parasher was invited to be a member of a NAAC core committee to develop a manual of Health Sciences for universities and colleges of India

Dr. Jeyanthi S (PT) was invited as a member of National curricula task force which was formulated by Ministry of Health & Family welfare on the inclusion of Yoga as a subject in physiotherapy curriculum.

Dr. Sonam Chadda and Dr. Jeyanthi S (PT) won first prize in Poster presentation titled “Prevalence of Polycystic ovarian syndrome in Delhi college students” at 7<sup>th</sup> International Conference of Physical therapy, AIIMS 2018, Delhi.

Dr. Raju K Parasher, Dr. Jeyanthi.S(PT), Dr. Kshitija Bansal (PT), Dr. Sampada Jahagirdar (PT) worked as members of the scientific committee of the 4<sup>th</sup> Annual Conference of Society of Indian Physiotherapists held at India Habitat centre, New Delhi on 15-17 February 2019.

### **Students with Distinction**

Mr. Vikalp Mohan Saxena of BPT 1<sup>st</sup> year secured 1<sup>st</sup> rank in the university.

Ms. Mridula Dua and Ms. Ramita Gupta of BPT 2<sup>nd</sup> year secured 1<sup>st</sup> university rank followed by Ms. Aishwarya Gupta.

Ms. Shreya Vashist, Mr. Tanmay Kumar and Ms. Kanishka of BPT 3<sup>rd</sup> year secured the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> rank in University respectively.

Mr. Digvijay Singh, Ms. Shivani Ahuja and Ms. Pinky Masih of BPT 4<sup>th</sup> year secured 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> rank in the University respectively.

Graduating student Ms. Haritima Wadhwa secured overall 1<sup>st</sup> position in the University (I, II, III, IV and Internship).

### **Publications**

Jeyanthi, S., Arumugam, N., Parasher, R.K. (2018). Effect of Physical exercises on Attention, Motor skill and Physical Fitness in children with Attention Deficit Hyperactive Disorder-A Systematic Review. *ADHD Attention Deficit Hyperactivity Disorders*, 11(2):DOI 10.1007/s12402-018-0270-0

Jeyanthi, S. (2018). Neurolinguistics Programming Theory-A Physiotherapy Perspective. *Physio Times Magazine*. 10(1): 16-23 ISSN NO:0976-1993

Komal, P., Jain, A. (2018). The effect of strengthening the ankle musculature on balance in elderly using EMG biofeedback versus conventional method. *International journal of Recent Scientific Research*. 9(11): 29598-29602.

Patki, K., Bhatnagar, B., Parasher, R.K. (2018). Relationship between Nutrition, Socioeconomic Status and Fitness in elementary School Children: A Review of the literature. *Indian Journal of Public Health Research and Development*. 9(2):154-159.

Reinai, T., Jahagirdar, S. (2018). Correlation of reaction time and visual attention with fear of falls in elderly population. *Int J Recent Sci Res*, 9(10):29414-29419.

Saxena, P.M. (2019). Effectiveness of Manual Therapy with Home Exercises in the Management of Cervicogenic Headache: A Single Case Study. *International Journal of Science and Research (IJSR)*. 8(2):1810-1813.

Yadav, A., Bansal, K. (2018). The prevalence of musculoskeletal problems in school teachers in Delhi-NCR, A cross sectional study. *International Journal of Recent Scientific Research*, 9(10B): 29156 – 29161.

### **Journals**

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 3

### **Research Project**

Dr. Jeyanthi. S (PT), Dr. Kiran Sharma (PT). Self, 2019-20, Development and Validation of questionnaire to explore knowledge, barriers, facilitators and preferences of physical exercise in Cancer Survivors, Nil

Dr Jeyanthi.S (PT), Dr Narkeesh Arumugam, Dr Raju K. Parasher, Self, 2017-19, Effectiveness of Neuro Linguistics Programming (NLP) and Structured Exercises on Motor Skills, Physical Fitness and Attention in Children with ADHD- A Randomized Control Trial, Nil.

Dr Kshitija Bansal (PT), Dr Barkha Bhatnagar, Dr Raju K Parasher, Self, 2017-19, Fitness of Urban Elementary School Children: Impact of Exercise, Nutrition and Socio-Economic Status, Nil.

Dr Sampada Jahagirdar, Dr Sonia Singh, Dr Raju K Parasher, Self, 2018-20, A study of the factors associated with fear of falls during ageing and establishing their relationship with functional abilities, Nil.

Dr Sonam Chadda (PT), Dr Jeyanthi.S (PT), Dr Raju K. Parasher, Society of Indian Physiotherapist, 2019-20, Development and validation of a screening tool to determine the prevalence of urban women predisposed to Polycystic Ovary Syndrome in Delhi, Rs.25,000.

### **Seminar/Conference Presentation**

Raju K Parasher presented a paper entitled, “Guest of Honor & Keynote Speaker” in Physiofest-2019- 10th National Level Physiotherapy Students Summit at School of Physiotherapy, RK University, Rajkot, Gujarat on 30 March 2019

S. Jeyanthi presented a paper entitled, “Shoulder rehabilitation for SLAP lesion and rotator cuff injuries” during the workshop at Venkateshwar Hospital organized by Indian Association of Physiotherapist – Women Cell (IAPWC) on 16 January 2018

Kshitija Bansal presented a paper entitled, “Movement for health: A step towards physical activity” during the conference “Recent Advances & Challenges in Health Care (REACH)” by G. D. Goenka University on 16 March 2019.

Manjusha Dobhal presented a paper entitled, “Introduction to the Concept of Inclusion” for the class teachers and Parents of children with Special Needs of Delhi Government Schools (Directorate of Education, Aided Schools, MCD and MCD Aided) on 8 to 22 February 2019.

Sampada Jahagirdar presented a paper entitled, “Impact of Inclusive Education using a Holistic Approach on Self-Esteem, Self-Concept and Attitude towards Disability in Elementary School Children” at the 5th International Conference on Inclusive Education held at New Delhi on 30 November 2018.

Sonam Chadda presented a poster entitled, “Prevalence of Polycystic ovarian syndrome in Delhi college students” at 7<sup>th</sup> international conference of physical therapy, AIIMS 2018, Delhi was held on 23 December 2018.

Aashish Yadav presented a paper entitled, “The prevalence of musculoskeletal problems in school teachers in Delhi- NCR, A cross sectional study” at the 4<sup>th</sup> Annual Conference of Society of Indian Physiotherapists, Delhi on 17 February 2019.

Komal presented a paper entitled, “The effect of strengthening the ankle musculature on balance in elderly using EMG biofeedback versus conventional method” at 4<sup>th</sup> Annual Conference of Society of Indian Physiotherapists, Delhi was held on 16 February 2019.

Thaiba Reinai presented a poster entitled, “Relationship of dynamic and functional balance with executive function in elderly” was held on 16 February 2019.

### **National/International MoUs Signed**

MoU signed with University of Zealand, Denmark for Training offered: Clinical Training for a period of 10 weeks

### **Students under exchange Programme**

Period of 10 weeks, Clinical training

Inbound: 3

### **Extension and outreach Activities**

Number of camps organized in the surrounding areas - 5 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. 2,03,728/-

Number of books added: 43

Physiotherapy related Journals subscribed: 6

### **Faculty Strength**

Total sanctioned faculty: 16 (Sixteen Academic and Two Clinical)

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## **ARYABHATTA COLLEGE**

### **Major activities and achievements**

The construction work for the ground plus three storey building has progressed at a good pace and is nearing its completion. The college has also submitted a proposal to the concerned authorities for three additional floors to the new academic block. One additional floor comprising 5 classrooms and 3 laboratories has been added to the existing second academic block (Taregana Block). A 70-Seater Conference Room has been created in the old administrative block. A Placement, a Resource Centre, a 2<sup>nd</sup> Psychology Lab. and a 3<sup>rd</sup> Computer Lab have also been added. Work on a utility centre comprising 3 shops



(teen-dukaan) has been initiated and is expected to be complete before the start of the new academic session.

### **Honours / Distinctions**

Dr. Manoj Sinha, the Principal, was awarded the 34<sup>th</sup> Dr. S. Radha Krishnan Memorial National Teacher Award 2018 for outstanding contribution in the field of education by Akhil Bhartiya Swatantra Patrakar Avom Lekhak Sangh.

### **Publications**

Kumar, K. (2018). The Partition of India: Beyond Improbable Lines. *Refugee: The Elusive Nutan Badi* Editor(s): Daniela Rogobete, Elisabe\_a Marino ISBN-13:978-1-5275-0846-0 ISBN-10:1-5275-0846-3.

Singh, J.K. (2018). Impact of Demonetization on Digital Transactions in India. *Journal of Modern Management and Entrepreneurship*. 8(4): 2231-2267.

Singh, J.K. (2019). Blending Environmental, Social and Governance Aspects with Traditional Investment Practices: An Emerging trend in Portfolio Management. *Saaransh*. USA. 10(2).

### **Research Projects**

Mr. Binoy Bhushan Agarwal was awarded The Charles Wallace India Trust Research Fellowship 2019 for his project 'Of Tempestuous Lives: British Female Travelers to India' amounting to GBP 1400 for archival research at The Centre of South Asian Studies (Cambridge) and the British Library in London, UK.

### **Seminar Organized**

Prof. Bonnie Zare, Professor, Virginia Tech University, USA, Special lecture on Toni Morrison and 'Bystander Intervention Program', 15 January 2019.

Siddharth Pandey, Fellow in Global History at Ludwigs Maxmillians University, Munich, Germany, 'Special lecture on Indian Hill Stations', 26 February 2019.

Janice Pariat, a Sahitya Academy Young Writer Award and Crossword Book Award winning author, 'Creative Writing Workshop', 29 March 2019.

Livleen J. Kahlon, Associate Director, TERI, 'Sustainable Development', 29 March, 2019.

Dr. Surender Kumar, Delhi School of Economics, 'Climate, Global Economy and Policy', 19 February 2019.

Parul Jain, Google Media Educator, 'How to verify Fake News', 23 October 2018.

### **Conferences organized**

Conference entitled, "Bhartiya Nari" organized by the college in collaboration with Deshbandhu College and Shaikshik Foundation, supported by UGC, ICSSR, ICHR, ICPR and the Chaudhary Bansilal University held on 23 and 24 February 2019.

UGC Sponsored National Conference entitled, "Nostalgia in Twentieth Century: Literature, Cinema and Arts" organized on 7 and 8 March 2019.

Conference entitled, "Indian Perspective on Women" organized in collaboration with Dristhi, Pune on 23 and 24 March 2019.

### **Seminar/ Conference Presentations**

J.K. Singh presented paper titled, 'Impact of Demonetization on Digital transactions in India' in an international seminar on Global Economy: Opportunities and Challenges organized by Inspira Research Association on 29 -30 September 2018.

Binoy Bhushan Agarwal presented paper on 'Of Cross Cultural Consumption: (Re) imaging Popular Culture' at the 'Telling and Retelling Stories: (Re)imagining Popular Culture' at the Wayne State University, Detroit, Michigan, USA. 1-3 March 2019.

Binoy Bhushan Agarwal presented paper on 'Of Global Influences and Indigenous Adaptations: The Cult of Superheroes in India' at the international conference 'A Hero of Our Time: (Inter)national symbolic public figures and their cult in the age of (post)modernity' organized by the European University and New Literary Observer at St. Petersburg, Moscow, Russia, 1-3 June 2018.

Binoy Bhushan Agarwal presented paper on 'The Past and its Narration: An Inquiry into Disciplinary Concerns and Questions of Form in History' at the 'Between History and Literature: Enquiries into Colonial Modernity' conference at the Department of English, University of Hyderabad in collaboration with Maulana Abul Kalam Azad Institute of Asian Studies 17-19 March 2019.

Surajit Deb presented a paper titled 'Globalization and the Rural-Urban Divide: An Inquiry on the Health, Education and Basic Amenities in India', at the International Association for Research in Income and Wealth (IARIW) 35<sup>th</sup> General Conference, Copenhagen, Denmark, 20-25 August 2018.

Naveen Kumar Jain presented paper 'Bohr's Radius for certain classes of analytic functions' in a national conference on Mathematical Analysis and Computing (NCMAC-2018) organized by the Department of Mathematics, SSN College of Engineering, Chennai, Tamil Nadu, India, 13-14 December, 2018.

Satish Kumar Jha presented a paper on 'What is Creative Social Theory?' in Creative Theory Colloquium organized by India International Centre on 6th September 2018.

#### **National/ International MoUs Signed**

MoU with National Institute for Entrepreneurship and Small Business Development, an organization of Ministry of Skill Development and Entrepreneurship, Govt. of India.

MoU with Alliance Francaise, Delhi, affiliated to the French Embassy, India.

#### **Other Inter-Institutional Collaboration**

International Astronomy Day in collaboration with Development Commissioner (Handicrafts) and National Centre for Design and Product Development under Ministry of Textiles, Govt. of India.

#### **Placement Details**

Number and percentage of students placed: 16 (23%)

Number of Companies visited for campus recruitment: 03

#### **Extension and Outreach Activities**

Enactus Aryabhata has been participating in various inter-college B-plan competitions and has won accolades. Transcending departmental boundaries, some events had the entire college faculty participating in it to create a more holistic environment. An interdisciplinary forum in the form of workshops and special lectures has been envisaged for an interactive collaboration across departments and disciplines to create common meeting grounds with international academics and resource persons for sharing of knowledge and research. Setting a new benchmark a five-day Personality Development Programme was conducted for the fourth time for the benefit of students which had faculty members from various disciplines including the Principal participating in it who delivered lectures and presentations. The programme aimed at overall development of students' personality including English proficiency enhancement thereby preparing them for an entry into a world of jobs and professionalism by honing their soft skills, linguistic competencies and body language.

#### **Library Development**

600 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**

Total permanent: 53

Total Ad-hoc: 40

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 33,07,95,000/-

Grant utilized : Rs. 25,89,97,163/-

### **Other significant information**

Binoy Bhushan Agarwal was the Senior Judge for The Queen's Commonwealth Essay Competition 2018 held under the aegis of The Royal Commonwealth Society, London. Our college is known for producing sports person of high caliber. It is possible because of the regular and disciplined practice sessions under trained coaches of various Sports like Taekwondo, Volleyball, Football, Ball-Badminton, Kabaddi, Table Tennis, Chess and Judo. This year our various teams won medals in different games at All India Inter University, National, State and Inter-College events. Delhi University Gymnastic Inter University Championship held at Patiala from 12<sup>th</sup> to 15<sup>th</sup> January 2019.

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## **ATMA RAM SANATAN DHARMA COLLEGE**

### **Major Activities and Achievements**

Four participating departments namely Physics, Chemistry, Mathematics and Life Sciences joined hands and organised a week-long Faculty Development Program. The focal theme of the event was Sustainable Development. The College collaborated with NIESBUD and organised a week-long Faculty Development Program. The programme aimed at motivating students for setting up their own business by educating the faculty through this FDP and making them aware of various schemes of the Govt. The college was ranked 14<sup>th</sup> in college category which shows its dedication towards the overall development of its stakeholders. This year our 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 on a regular basis. As per the recent India Today ranking of Arts, Science and Commerce colleges in India, the college was ranked 12<sup>th</sup> among 100 Science colleges of the country and 11<sup>th</sup> among Commerce colleges in India, while 6<sup>th</sup> best college for Commerce among University of Delhi and 15<sup>th</sup> for Arts courses in India and bagged 8<sup>th</sup> position among University of Delhi

### **Honours/Distinctions**

Dr. Raghvendra has received most prestigious Young Researcher Award by the Indian National Science Academy (INSA), New Delhi to work under Indo-Japanese (INSA-DST-JSPS) Joint Project on "Establishment of young researcher fellowship Programme-2018-19" for six months at Tokyo Institute of Technology, Tokyo, Japan for conducting advance bilateral collaborative research on the project titled "*Investigation of the Novel Ionic Conductors for Intermediate Temperature Solid Oxide Fuel Cells*".

Senior India Handball Team won Silver Medal during International Handball Tournament in Tashkent, Uzbekistan on Sep. 29, 2018.

Ayush Bhardwaj won 2 bronze medals in men fours and men pairs respectively, Asian championship lawn bowls held in Xinxiang China from 10<sup>th</sup>-18<sup>th</sup> of October 2018

Karnik Raj Sharma student of B.Com(Hons) 2nd Year, won two gold medals in Trap events during Delhi State Shooting Championship.

Nitin Tyagi student of B.A(Prog) 1st Year achieved third position in Inter College Swimming Competition in 1500 Free Style.

### **Students with Distinction**

Manish Singh student of B. Sc. (Hons) Mathematics I year scored CGPA 10 in the academic Session 2018-19.

### **Publications**

Jha, G.K. (2018). Rangbhumi ka surdas: Adhikaron ke liye Sajag Nayak, *VIKALANGATA SAMIKSHA*.

Sharma, A. (2018). Development of MEMS based Lamb Wave Acoustic Devices. *IEEE Transactions on Electron Devices*. 65(4): 1-4.

Kumar, A. (2018). X-ray Photoelectron Spectroscopy (XPS) Study of Heusler Alloy (Co<sub>2</sub>FeAl) interfaced with Semiconductor (n-Si) Structure. *Materials Science*. 37(1): 116-121.

Pandey, R. (2018). The effect of synthesis and thermal treatment on phase composition and ionic conductivity of Na-doped SrSiO<sub>3</sub>. *Solid State Ionics*. 314: 172-174.

Tuli, V. (2018). Investigation of lead free BLFO-BT composite for multi-ferrior sensor. *Journal of Basic and Applied Engineering Research*.

Singh, R. (2018). Trimetallic oxide nanocomposites of transition metals Titanium and Vanadium by sol-gel technique: Synthesis, characterization and electronic properties. *Materials Research Express*. 5(4): 17-21.

Dixit, V. S. (2018). A Business Intelligent Framework to Evaluate Prediction Accuracy for E-Commerce Recommenders. *Lecture Notes in Computer Science*, Springer. pp 275-288.

Batra, G. (2018). Stakeholders Influence on Sustainability Disclosures: An Empirical Investigation. *Business Analyst* - 2018.

Mathur, C. (2018). Changing Digital Landscape in Smart Environment (ed.), *Role of Women Entrepreneurs in Indian Economy*, 2018, ISBN:9789386690876. Orange Books International

Singh, A. (2019). Pravasi Bharatiyon ke Mehtvapurn Sarokaar. *Pioneer (Hindi Edition)*.

### **Journals**

Number of college teachers serving as Editor(s) and Member(s) of Editorial Board- 01

Member, Editorial Board: Dr. Gyantosh Kumar Jha, Vikalangata Samiksha ( Hindi Magazine), since December 2018, published from New Delhi.

### **Research Projects**

Structural Dielectric Optical and Magneto-Electric properties of Multiferroic nanocomposites, Dr. VinitaTuli. Amount Rs. 28 lakhs

Study and Development of Novel Anti-bio-film compounds Curcumin and Boron Compounds, Dr. Sunita Bansal. Amount Rs. 16.60 lakhs

Design And Synthesis Of Small Molecules Of Benzimidazole And Quinoline And Theri Metal Complexes For Antimalarial And Catalytic Activities, Dr. Sunita Bansal. Amount Rs. 24 lakhs

Archiving Gandhi's Buniyadi School: Towards An Inclusive And Sustainable School System, Dr. Indrajeet Kr. Jha. Amount Rs. 18.25 lakhs

Reinventing Select Folk Theatre Forms of North And East India: Towards A New Idiom Of Contemporary Theatre, Dr. Anamika Prasad. Amount Rs. 30.40 lakhs

Study of Fine Art Creativity, Optimistic Approach And Therapeutic Benefits, Dr. Suman Dudeja. Amount Rs. 17.60 lakhs

An Alternative For Petrochemical Based Polymers: Synthesis Of Biobased/Semi-Biobased, Biodegradable, Photo-Functional & High Performance Polymers With Advanced Properties For A Sustainable Future, Dr. Rajeev Singh. Amount Rs. 20.15 lakhs

### **Seminars Organized**

National seminar on “Rahul Sankrityayan: Literature, History and Political Philosophy” on 24 August 2018.

National Seminar on “New Trends in Nanotechnology and Applications” on 27 and 28 September 2018.

Internal Quality Assurance Cell organized a two day long inter-disciplinary International Seminar on “Indian Vernacular Literature: Premakhyana” on 29 and 30 January 2019.

### **Seminar/Conference Presentations**

Priyanka Yadav presented a paper entitled, “Optimality Conditions for Optimization Problems with Nonconvex Feasible set “in “International symposium on Operations Research and Game Theory: Modelling and Computation (ISORGT-2018)” held at Indian Statistical Institute, Delhi Centre, Delhi, India on 9 to 11 January 2018.

Chhatrapal presented a paper entitled, “Review of Godunov type high resolution numerical schemes for hyperbolic conservation laws” in ICRAPAM -2018 from 23 to 25 October 2018.

Baljeet Kaur presented a paper entitled, “Creating Innovations in Digital Era: Management & IT Perspective” at Ideal Institute of Management and Technology & School of Law on 30 August 2018.

Anu Priya Arora presented a paper entitled, “Emerging Trends and Challenges in Globalized Digital Era” organized by Chitkara Business School, Chitkara University, Punjab in collaboration with IARDO on 25 May 2018.

Ravinder Pant presented a paper entitled, “Sustainable Business Practice: A study of Consumer Awareness of Eco Labels” published and presented at VINC’19 International conference held on 14 and 15 March 2019.

Amit Singh presented a paper entitled, “India-Vietnam Relations and the South China Sea Disputes” in an International Conference on ‘India-Vietnam Relations through the Prism of Gandhian and Ho Chi Minh starPhilosophies’ organized by the Sri Venkateswara University, Tirupati on 17 and 18 March 2019.

Amit Singh presented a paper entitled, “South China Sea Disputes: Issues and Challenges” in an International Conference on ‘Emerging Security Order in Indo-Pacific: Issues and Challenges’ organized by the Centre for Canadian, US & Latin American Studies (CCUS&LAS), JNU, in collaboration with Kalinga Institute of Indo-Pacific Studies (KIIPS) on 14 and 15 July 2018.

Gurvandna Singh presented a paper entitled, “Finding a Voice: Transition from Jane Eyre to Wide Sargasso Sea” at a National Conference at Manav Rachna International Institute of Research and Studies on 31 January 2019.

Achingliu Kamei presented a paper entitled, “Narratives of Madhubani and Graffiti: From the Margins to the Centre” at the National Conference ‘(Re) Defining Marginality’ organised by Zakir Husain College on 16 March 2019.

Prerana Sinha presented a paper entitled, “Indian Women Filmmakers and their Voice” at a National Conference organized by Bharati College on 5 and 6 April 2018.

### **National/International MoUs Signed**

MoUs with companies, NGOs, and governmental agencies such as BSE Institute Limited, AIFMR, NIESBUD, Jaagruti, PomPom and others, to offer training courses and other learning opportunities to students.

MoU with Society for Disability and Rehabilitation Studies to provide infrastructural, monetary as well as instrumental support to differently-abled students across South Campus.

MoU with Jaagruti paper recycling unit for waste paper management.

MoU with Pom Pom for e-waste management.

### **Placement Details**

Number of students placed: 109

Number of companies/industries visiting campus for recruitment: 07

### **Extension and Outreach Activities**

NSS Unit of the college organized many outreach activities-In collaboration with Swachh Bharat Committee NSS observed three Swachhta Pakhwara as per the guidelines of Government of India. As part of the first Pakhwara (1-15 August 2018). NSS unit of the college joined hands to help flood victims in Kerala. They conducted donation drives for two days (19-20 August) within the College. A plantation drive was organised in the college premises on 5th September 2018 making students aware and leading them to put their step forward towards planting a life. In collaboration with National Institute of Social Defence, organised One Day Sensitization Programme on ‘‘Prevention of Drug Abuse Amongst Youth’’ on 19 September 2018. Another Sensitization Programme on Drug Abuse among Higher Education was organized in the North Campus on 28 March 2019 with Department of Adult Continuing Education and Extension.

### **Library Development**

The College Library procured 1128 books, 40 periodicals and 27 magazines in previous year (2018-19) in various discipline to fulfil the information needs of user community. The Library has vast collection of 111216 (Approx.) books and bound periodicals. The Library also received gifted books from various organizations and faculty members etc. . Library software also facilitates OPAC (Online Public access catalogue) functions, enabling users to access their required documents Library is linked to N-List digital library, UGC infonet and INFLIBNET

### **Faculty Strength**

Total sanctioned faculty: 194

### **Financial Allocation and Utilization**

Grant sanctioned: 45.43 crores

Grant utilized: 50.13 crores

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## **BHAGINI NIVEDITA COLLEGE**

### **Major Activities and Achievements**

NCC unit of college organized camps for 160 cadets under mentorship of ANO Captain Parminder Sehgal. SCO Avantika made her first flight in parasailing in Prime Minister's rally. Garden committee and department of EVS organized plantation drive in college and nearby Kair village. Health and hygiene committee organized health and blood donation camp. Dramatics society bagged first prize in Intra-College

competition Navrang and participated in Bharat Rang Mahotsav organized by national School of drama and won cash prize of Rs. 3000 by election commission. History society organized a special lecture " A new insight into the Harappan civilization: archaeological perspectives" on 2nd March 2019 in which Dr Cameron A Petrie, Associate Professor Department of Archaeology University of Cambridge,UK was invited to enlighten the students.

### **Honours and Distinctions**

Dr. Alokka Dutta received "Best college Lecturer Award", 2018 from Directorate of Higher Education, Delhi Government.

Dr. Mamta Sehrawat received a gold medal in Shot-put in Delhi Veterans Athletics and National Masters Athletic Championship held at Sawai Mansingh stadium Jaipur on 4 February 2019.

Capt. Parminder Sehgal with awarded 'Woman Empowerment Award' on the occasion of Woman's Day by Bhagidari Jan Sehyog Samiti for promoting Woman Safety Campaign through NCC and NSS.

Dr. Yogesh Kumar awarded with 'Distinguished Investigator Award' for notable Academia Industry Research Excellence from Center for Global Health, Hansraj College, DU & Loyola University Chicago, School of Medicine, USA in association with TCI chemicals.

Mr. Vishal Chaudhary was awarded as Young Scientist at International Conference on "Advanced Material Energy.

### **Publications**

Gergen, K., Sharma, C., Sameshima, T., Wu, Shi-Jiuan, Yang, L. (2018). Cultures in Motion: Challenges to Future Inquiry. In: Yeh, Kuang-Hui (Ed) *Asian Indigenous Psychologies in the Global Context*. Palgrave Macmillan, pp. 47-67.

Gupta, S. (2019). Analysis of different domains of artificial intelligence, *Engineering and Scientific Information Journal* (ESIJ), 61(1): 1-5.

Parvendra, K., Vedeshwar, A.G. (2018). Generation of frequency –tunable squeezed single photons from a single quantum dot. *J. Opt. Soc. Am. B* 35: 3035.

Parvendra, K., Vedeshwar, A.G. (2018). Squeezed photons from a single quantum dot with tunable central frequency, *Laser Science J Tu* 3A: 65.

### **Seminar/Conference Presentations**

Alokka Dutta presented a paper entitled, "Assessment of south Korean UN membership", organized by department of East-Asian studies, University of Delhi on 25- 26 October 2018.

Seema Gupta presented a paper entitled, "Analysis of different domains of artificial intelligence" at 2<sup>nd</sup> National Seminar on the Dynamics of Data Analysis and Research Publications organized by department of information systems management, Alpha Arts & Science College, Chennai.

Vishal Chaudhary presented a paper entitled, "Energy Efficient Smart Sensors based on conducting polymers for monitoring Hazardous contaminants" at National Conference on Nano World-held at Shivaji College, University of Delhi on 12 - 13 April 2018.

### **Placement Details**

Number of students placed: 01

### **Extension and Outreach Activities**

The health and hygiene committee organized a "Health Camp" on 20 February 2019. Dr. Shweta Puri gynecologist from Venkateshwara Hospital presented on "Prevention of cancer in females". Swachh Bharat

committee organized various activities throughout the year based on the theme "Swachhta hi Seva" in association with NSS unit of college. A series of events such as "Cleanliness Awareness Rally" and "Door to door campaign" were conducted in Kair village. Workshop on "Waste management" was held which was headed by Green circle speakers Mr Anil Parashar who gave lecture on "Clean Environment: a human right perspective" and Mr V Selvarajan who spoke on "Waste: A serious environment concern". Physics society "Physion" organized workshop on sexual health and hygiene on 25th Feb 2019. Cyber security workshop was organized in association with Elan and N vision, IIT Hyderabad and Azure skynet solution.

### **Library Development**

College library has a collection of 32316 books. Number of books added in this academic session is 440. The number of journals and magazine subscribed by library is 32. The faculty and students have access to 14 different news papers. The library also offers access to one lakh e-books and 6000 e-journals, N- list programme of UGC.

### **Faculty strength**

Total permanent faculty: 40

Total Ad-hoc faculty: 44

### **Financial Allocation and Utilization**

Grant sanctioned :Rs. 12,18,00,000/- and 30,00,000/-

Grant utilized :Rs. 17,60,24,031/- and 55,22,968

### **Other Significant Information**

Miss Simran has secured gold medal in International Taekwondo championship held at Kolkata. Miss Pratigya secured bronze medal in Delhi Olympic games, bronze medal in Delhi 35<sup>th</sup> state taekwondo championship, gold medal in 8<sup>th</sup> central district taekwondo championship, 1 silver medal in 5<sup>th</sup> dreams cup open National taekwondo championship, gold medal in talent optimization programme. Miss Khushi Kasana secured gold medal in National tug of war championship held at Maharashtra silver Medal (women's category) in South Asian tug of war, a bronze medal in tug of war championship held in Sri Lanka. Volley ball team of our college secured 2<sup>nd</sup> position in open tournament organized by DDA sports complex Paschim vihar, Delhi.

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## **BHARATI COLLEGE**

### **Major activities and achievements**

The college was ranked 36<sup>th</sup> out of the best 100 colleges in India in Commerce Stream and 74<sup>th</sup> out of top 100 colleges in India in the Arts Stream by the India Today - MDRA Survey 2018. There was fruitful collaborations with the Society for All Round Development, Dr. Ambedkar International Centre (DAIC) and Make a Difference (MAD). The Computer Lab in the Library section has been upgraded with laptops for practical classes of the department of Mathematics. This is being run with the help of the existing library staff and teachers of Mathematics department.

### **Honours/Distinctions**

Dr. Shubhra Kathuria, was selected as Delhi Team Manager for University of Delhi Badminton Team to represent at North Zone Badminton Championship. She has also been selected as Member of selection committee of Bowling Federation of India for Asian Lawn Bowls Championship 2018 held at China.

Dr. Bipul K Ray performed during the visit of the Cambodian Prime Minister in India along with The Honorable Indian Prime Minister at Hyderabad House. He also performed at the Tansen music festival



2018, Dhrupad Triveni at BHU organized by IGNCA and Sangeet Parva 2018 at Delhi.

Dr. Bindu Kohli was honored by Delhi Public Library (Ministry of Culture) for her special contribution towards Swachh Bharat Aabhiyan.

Dr. Sonali Jain was nominated for membership of the Executive Council of FSLE-India for its Delhi-NCR region.

### **Student Distinctions**

Shreeya Sharma was selected for ZCA (North India) Camp under 19 conducted by BCCI at Firoz Shah Kotla Stadium. She represented Delhi in U-23 National T- 20 Cricket Tournament for super league held at Delhi and Jaipur.

Nikita, N. Bindiya represented University of Delhi in All India North Zone Inter University Championship while Radha got selected to represent Delhi in Federation Cup Kho Kho Championship.

Riya and Manisha secured 1<sup>st</sup> Position in Duet Classical Dance Competition at AIIMS while Vaishnavi and Bhoomika secured 2nd & 3rd position in IBS Gurugram respectively in Solo singing Competition.

Priyanka Chhabra secured II position in Solo Classical Kathak dance competition. She and her dance group stood first in Aditi Mahavidyalaya in the group dance competition as well.

### **Publications**

Banerjee, A. (2018). The Satirical Caricatures of Gaganendranath Tagore. Postscriptum: An *Interdisciplinary Journal of Literary Studies*, 3(2): 33-52.

Bhushan, N., Agarwal, B. (2019). Consumers' Buying Behavior towards the sales Promotion Tools in Retail Outlets. *Indian Journal of Economics and Business*, 18(1): 325 –341.

Bhutani, K., Bhushan, N. (2019). Business Mathematics and Statistics. Delhi, Delhi: *JSR Publishers*

Chaddha, P., Agarwal, B., Zareen, A. (2018). Investigating the Impact of Celebrity Endorsement by Banking Sector on Consumer's Attitude towards availing their offered Services. *International Journal of Management Studies*, 4(7):17–29.

Dwivedi, S. S. (2018). Perspectives on International Relations and World History. *Galgotia Publishing Company, New Delhi, Delhi*.

Gupta, M. (2019). Well-posedness and scalarization in set optimization involving ordering cones with possibly empty interior. *Journal of Global Optimization*, 73: 447-463.

Johri, R. (2018). Examining the Ethical Framework of the Accounting Control System- A Literature Review, *Arthavaan*, 2(1):95-101.

### **Journals**

Journals published by college : 01

No. of college teachers serving as Editors: 06

### **Research Projects**

SFBTA project entitled, "Effectiveness of Solutions Focused Brief Theory on Self – Concept, Self – Esteem and Adjustment of Bullied Adolescents" (2017-19) Amount \$ 2500.

### **Seminars Organized**

Prof. Sanjay Pandey and Prof. Sanjay Bhardwaj, Jawahar Lal Nehru University, 'India and then World' on 12 November 2018.

Shri Harinder Pal Singh, Chairman Gurmat College, 'Guru Nanak's View of Life: Contemporary Context', on 11 February 2019.

Ms. Isha Pandey, IPS Officer, 'Work Life Balance and Career in Civil Services' on 28 February 2019.

### **Conferences/workshop organized**

Conference entitled, 'History in the Classroom: Challenges, Innovations and Pedagogic Issues in Undergraduate History Education', PMMMNMTT, MHRD, on 5-7 April 2018.

Conference entitled, 'Political Action in Global Politics- Ethics, Strategies and Methodological Concerns' 19-20 November 2018.

Science in Sanskrit Literature, 'Self-Funding and Kalidasa Academy of Sanskrit Music and Fine Arts' 19-20 January 2019.

### **Seminar/Conference Presentation**

Madhav Gopal presented a research article entitled, "Argument Structure of Sanskrit Verbs" in the International Research Seminar, at Bharati College in January, 2019.

Madhuri Sharma presented a paper entitled, "Davayee meri avval, paisa lena dubble: Marketing Health and Medicine in India during Twentieth Century", Therapeutic Commodities: Trade, Transmission and the Culture of Global Medicine, 1600-2000. A Joint workshop by the Global History and Culture Centre (University of Warwick) & the Centre for Historical Studies (JNU) was held at Convention Centre, JNU New Campus, New Delhi on 5-6 November, 2018.

Meenakshi Gupta presented a research paper entitled, "Levitin-Polyak well- posedness and set optimization" in the "33rd Annual Conference of the Ramanujan Mathematical Society" held at Department of Mathematics, University of Delhi during 1-3 June 2018.

Meenakshi Gupta presented a paper entitled, "Levitin-Polyak well-posedness and set optimization" in the "National Research Scholars' Seminar" held at Department of Mathematics, University of Delhi during 28 December 2018.

Nandini Sen delivered a lecture titled "Where is my Home?" at a National Conference jointly organized by Adikabi Sarala Das, Chair of Odia Studies and Shodhsamvad Research Forum at Jawaharlal Nehru University on 9 January 2019.

Shailesh Kumar presented a paper titled "Impact of Globalization on Decent Employment in India" on the theme of Employment Challenges and Policies at Centenary Second Conference of The Indian Economic Association organized by Vellore Institute of Technology, Vellore, Tamil Nadu during 27-29 December 2018.

Shailza presented a paper entitled "The Homeland Security Moment in International Security: A Critical Perspective from the Global South" at the Two-day National Seminar on Revisiting Peace and Security in the Contemporary World: Interventions from India organized by the Peace and Security in International Politics Research Network, University of Delhi, held on 11-12 May 2018.

Shalu Kaur presented a paper entitled, "Katti hoyi baah, natak di natki parat" in a National seminar in Dayal Singh College on 19 April 2018.

Shivani Jha presented a research article entitled "Smothered Voices: Reading Women As Victims In Shashi Tharoor's- Riot" at the Conference "Historical Perspectives on Predicaments and Rights of Women in India" organized by Women Development Cell and Indian Council of Historical Research at Bharati College, University of Delhi on 20-23 March 2018.

### **National/International (MoUs) signed**

MoU signed with Indian/Foreign Companies/Industry

MoU signed with NIIT Ambit Computing Pvt. Ltd. to qualify NIELIT

MoU signed with Green –O – Tech to recycle waste paper

### **Placement details**

Number and percentage of students placed: 54 (50.94%)

Number of Companies/Industries coming for campus recruitment: 12

### **Extension and Outreach work**

NSS unit of College successfully organized a full day Campaign for Kerala Flood Relief on August 19th, 2018. Contributions were sent to the CM Disaster Relief Fund. With the help of local NGOs, Students have been actively associated with creating awareness on nutrition for pregnant & lactating mothers, personal hygiene, child rights and laws & policies for children, vaccination and educating children of migrant labourers in the vicinity. As a part of the 'Children with Special Need' practical, the 3rd year students have worked extensively with organizations like Aashirwad, SARD, DCCW, Lakshya, Salam Balak Trust, Handicapped Children's Rehabilitation Association (HCRA). Students interned with Divya Jyoti Jagrati Sansthan, an NGO under the project named 'Manthan Education Program' –that enables children to reach their potential.

### **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. During this year approximately 645 new books were added to the stock of Library taking the total of books in the collection of library to 52910. The library subscribes to 18 Newspapers in English and Hindi, 17 National and International journals and 13 magazines. This year, 174 books were added to library collection under Gift Section received from well-wishers, teachers and students.

### **Faculty Strength**

Total permanent: 65

Total Ad-hoc: 61

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 223904000/-

Grant utilized : Rs. 271181727/-

### **Any other significant information**

The academic support cell of Bharati College has a unique feature where instead of traditional pedagogy, the model of Peer Group teaching is followed. Students from Mathematics Department conducted classes for other students preparing for the competitive examinations. Faculty Development Programmes were organized by the Department of Human Development and Family Empowerment (HDFE) on Incorporating Current Research into UG Curriculum (5-7 April 2018) and Department of Commerce in collaboration with Internal Quality Assurance Cell (IQAC) on Hands on Practice of Advanced Data-Analysis Tools on 15-21 December 2018. The Non-teaching staff attended Faculty Development Programmes and various other programmes run by CPDHE and other Colleges. Besides the 2870 regular students, the NCWEB and SOL Centres have benefitted approximately 1100 more students. The Bharati Pariwar has been working unitedly and steadfastly towards transforming the lives of all students who enter their portal.

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## BHASKARACHARYA COLLEGE OF APPLIED SCIENCES

### Major Activities and Achievements

A documentary was shown on the theme 'North East India: Assam' on 26 October 2018 and poster making competition on Cultural Diversity in North East' was organized by North East Cell of the College on 29 September 2019. Four departments of the college i.e Electronics, Physics, Instrumentation and Computer Science have been awarded financial support from the DBT under their Star College Scheme. Open Gym facility work has been started and is in near completion. Celebrated 'SRIJAN 2K19' on February 23 -24, 2019. Celebrated voter day on 25 September 2018. Vivekanand and Vichar Manch (VVM) celebrated 'Universal Brotherhood Day' & Birthday of Pandit Deendayal Upadhyay, on 28 September 2018. A training on 'Biomedical Waste' was organized on 19 July 2018 and a cleanliness drive was observed by all the department in the college during Swahhata Pakhwada from 6 to 11 August 2018. The Career Counselling cell organized a session on Higher Education Opportunities Abroad' on 28 September 2018.

### Honours/Distinctions

Dr. Madhulika Bajpai was awarded the College Teacher's Award (2017-18) by the Directorate of Higher Education, Govt. of NCT of Delhi.

### Students with Distinction

Nishant Sindhu of B.Sc. (Hons) Electronics II year received a Gold Medal in 10 meter Air Pistol-Men (Team Event) in All India Inter University Shooting Championship (2018-2019) held at Guru Nanak Dev University, Amritsar on November 06, 2018.

Ms. Shakti Singh of B.Sc. (Hons) Physics II year qualified for Inspire Scholarship offered by Government of India. The fruition of scholarship is for five years.

### Publications

Ash P.E.A., Dhawan, U., Boudeau, S., Lei, S., Carlomagno, Y., Knobel, M., Al Mohanna, L.F.A., Boomhower, S.R., Newland, M.C., Sherr, D.H. & Wolozin, B. (2019). Heavy Metal Neurotoxicants Induce ALS-Linked TDP-43 Pathology. *Toxicological Sciences*, 167(1): 105-115. (\*Equal first authors)

Nain, R., Dobhal, S., Bidaliya, P., Saini, G., Pani, B. & Sirohi, S. (2018). Ag decorated silica nanostructures for surface plasmon enhanced photocatalysis. *RSC Advances*. 8: 20287-20294.

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 Biotechnology*. 103(2): 843-851.

Sharma, R., Jain, P., Sadhu, S.D., (2019). Study of Morphological and Mechanical Properties of PBT/PTT Blends and Their Nanocomposites and Their Correlation. *Arab J Sci Eng*, 44(2): 1137–1150.

Shukla, S. K., Kushwaha, C. S., Dubey, G. C., (2018). Integrated Approach for Efficient Humidity Sensing Over Zinc Oxide and Polypyrrole Composite. *Materials Science & Engineering C*. 90: 325-332.

Singh, A. K., Thakur, S., Pani, B. & Singh, G. (2018). Green synthesis and corrosion inhibition study of 2-amino-N'-(thiophen-2-yl) methylene) benzohydrazide. *New Journal of Chemistry*, 42: 2113-2124.

Singh, P., Shukla, S. K. (2018). Opto-Chemical Glucose Sensing Over NiO/polyaniline Hybrid Matrix Using Optical Fiber Approach. *Optik*. 165: 94-101.

Singh, P., Kushwaha, C. S., Shukla, S. K., Dubey, G. C., (2018). Synthesis and Humidity Sensing Properties of NiO Intercalated Polyaniline Nanocomposite. *Polymer-Plastics Technology and Engineering*. 58(2): 139-147.

Sirohi, S., Jassal, M., Agrawal, A. K., (2018). Surfactant-Free Nanoencapsulation Using Reactive Oligomers Obtained by RAFT Polymerization of Styrene and Maleic Anhydride. *Applied Nanoscience*, 8(7):1701–1710.

Surah, S.S., Vishwakarma, M., Kumar, R., Nain, R., Sirohi, S., (2019). Tuning the Electronic Band Alignment Properties of TiO<sub>2</sub> Nanotubes by Boron Doping. *Results in Physics*. 12: 1725-1731.

### **Journals**

Number of college teachers serving as Editors/ Members of Editorial Board: 03

### **Research Project**

SERB-DST project entitled, ‘Significance of 5-Hydroxymethylcytosine in Neurodegeneration Associated with Rapid Eye Movement Sleep Deprivation’ (2018- 021) of Dr. Uma Dhawan as Principal Investigator. Amount Rs. 40.11 lakhs.

Department of Science and Technology project entitled, “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” of Dr. Uma Chaudhry, Dr. Balaram Pani. (2017-2019) Amount Rs. 22.72 Lakhs.

Department of Biotechnology project entitled, “Use of Foldscope for the speed identification of microbes: An inexpensive and point-of-care solution for screening of microbes” of Dr Uma Chaudhry. (2018-2019), Amount, Rs. 8 Lakhs.

### **Seminars organized**

Department of Biochemistry in association with Department of Zoology organized a one day seminar on ‘Neuroplasticity: Role in Learning, Memory and Spinal Injury’ on 20 February 2019

Seminar entitled ‘Opportunities in Science, Challenges and Way Forward’ organized by the Training and Placement Cell Bhaskaracharya College of Applied Sciences on 05 October 2018

Seminar was organized by the Department of Computer Science in association with Landmark Institute under the guidance of Dr. Sangeeta Srivastava on 10 October 2018 on ‘Career in IT after Graduation’.

National Seminar on, “Building Partnerships to achieve the Global Goal of “ZERO HUNGER” on 16 October 2018.

### **Seminar/Conference Presentations**

Bhavya Deep presented paper entitled, “An approach towards more Accurate Forecasts of Air Pollution Levels through Fog computing and IoT” in International Springer Conference on ICT for Sustainable Development co-located with International Research Symposium on Computing and Network Sustainability held during 30-31 August 2018.

Bhavya Deep presented paper entitled, “Content Rating Technique for Cloud Oriented Content Delivery Network using Weighted Slope One Scheme”, in IEEE Cloud 2018 Conference organized by IEEE World Congress on Services, held at San Francisco, California, USA. on 2 July 2018.

Eram Sahid Rao presented a paper entitled, “Innovation in Food Safety Manufacturing through three elements: Food Traceability, Compliance and Quality Control” at the Pre- Connect Congress on “Nutritional Science and Functional Foods” held on 28-29 August 2018.

Meenakshi Garg presented a paper entitled, “Preparation and Mechanical Properties of Vegetable Oil Based Polymer and PVA Blend” at the National Conference on New Trends in Nanotechnology and Application” at ARSD College, New Delhi on 27-28 September 2018.

Roshan Lal presented a poster entitled “Study on the Chemical and Microbiological Characteristic of Spiced Paneer of Different Formulation” at the International Conference on Microbes for Biotechnological Innovations ( MBI-2018) at M.D University, Rohtak, Haryana, India on 7 December 2018.

Tanya Luva Swer presented a poster entitled, “Application of anthocyanins extracted from *Pruonu snepalensis* L. In food processing” at International Conference “Recent Advances in Food Fortification with Emphasis on Vitamin D Deficiency in Human Health” held in Jamia Hamdard, New Delhi on 15-16 September 2018.

Madhulika Bajpai presented a paper entitled, “Lifestyle Interventions in Stress Management: The Indian Way” in the Annual Second Fortis Annual Psychology Conference on “Situating Culture in Applied Psychology” held at Fortis Memorial Research Institute, Gurgaon during 5-7 October 2018.

Geeta Bhatt presented an invited talk on “Lossy Mode Resonance (LMR) and its sensing Application” at the International Conference on Physics, Society and Technology organised by Department of Physics & Deshbandu College University of Delhi, during 17-19 January 2019.

### **Placement Details**

Number and percentage of students placed: 15

Number of Companies visited for campus recruitment: 03

### **Extension and Outreach Activities**

Students and faculty members carried out an outreach activity on Pesticide Awareness for the students of Sarvodaya Bal Vidyalaya, Matiala, Delhi on 22 October 2018. Department of Computer Science organized a seminar on 23 January 2019 on “M-Commerce” in collaboration with ICT Academy within the college premises, as an outreach activity for neighboring government school students. The seminar was conducted by Mr. Ved Shukla (Founder & CEO, Benefic Media) and Mr. Karan Dohbal (Head – Alliances & partnership Cheep Care). Dr. Sangeeta Srivastava convened and participated in an outreach activity for neighboring schools on ‘Digital Divide and Role of Social Media’ on 9 October 2018. Sh. Bhavya Deep Co-convenor for an outreach activity organized for neighboring schools on ‘Digital divide and role of social media’ in collaboration with ICT Academy on 9 October 2018. An outreach initiative was taken by Department of Zoology in collaboration with Department of Biomedical Sciences and Biochemistry wherein a ‘one day workshop on Foldscope’ was conducted at the Department of Biomedical Science of Acharya Narendra Dev College on 02 February 2019.

### **Library Development**

Library has a collection of 25737 volumes of books 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 NM-LIST (National Library and Information Services Infrastructure for Scholarly Contents) program of INFKIBNET. The library had successfully migrated from LSEase (LibSys) Library Management Software to KOHA – An Open Source Software for Library Management last year only. This year we have been able to develop many KOHA utilities to customize to software so that the LMS meets our specific demands.

### **Faculty Strength**

Total Permanent:46 (+ 01 Librarian)

Total Ad-hoc: 42

### **Financial Allocation and Utilization**

Grant sanctioned (Recurring)	:	Rs.22,73,86,881.43
Grant sanctioned (Non-Recurring)	:	Rs.1,48,55,963.00

Grant utilized (Recurring) : Rs. 22,33,86,814.30

Grant utilised (Non-Recurring) : Rs. 50,50,621.60

### **Other Significant Information**

Digital system manages paper & teacher database, workload various students related database. It is an online cloud-based system which is accessible to all the faculty members and provides real time information of various academic and administrative data. The system automates various processes like Time Table preparation, Attendance and Internal Assessment Completion through cloud-based application that works on mobile and desktop platform. The system also makes the feedback available to the respective teachers anonymously. Mechanism has been developed to receive online budget proposal from all the section in the college. College has two pits for garden wastes and other litters. Wastes are transformed into manure which is then used for plants. College has two units of Rain Water Harvesting Systems and these are re-charged every year.

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## **CHACHA NEHRU BAL CHIKITSALYA**

### **Major Achievements and Activities**

CNBC is a 221 bedded Pediatric Super Specialty Autonomous Institute under Government of Delhi. Its mission is to provide 'Preventive & Curative Services' to children up to the age of 12 years. CNBC was the first public hospital in India to get NABH Accreditation in Feb 2009 and completed its 4<sup>th</sup> cycle of re-accreditation in October 2018. Presently CNBC is running Post Graduate DNB Courses in Pediatrics and Pediatric Surgery and also two years NBE Fellowship in Pediatric Nephrology. CNBC is also running one year fellowships in Pediatric Anesthesia, Pediatric Orthopedics and Pediatric Infectious Diseases. Nearly 50 research papers have got published in various National and International journals in year 2018 and nine extramural research projects are currently running in the Institute.

### **Honours and Distinctions**

Dr. B.L. Sherwal, Director CNBC, honored as President of Indian Association of Microbiology.

Dr. Mamta Jajoo, Professor Pediatrics received "Vishisth Chikitsa Award" on Doctors day by Honorable Union Health Minister Shri J.P. Nadda under the aegis of DMA.

Dr. Natasha Gupta, Specialist Radiology, received 'Presidential Appreciation Award' from IRIA, Delhi State Chapter in February, 2019 for efficiently organizing activities under 'Raksha Programme'.

Dr. Mamta Sengar, Prof. Pediatric Surgery received best paper award at the IAPSCON 2018, Chandigarh for paper presentation on "Prostatic Utricles in Patients with Severe form of Hypospadias: Anatomical Patterns and Management"

Dr. Meenakshi Wadhwa, Assistant Professor in Ophthalmology received a second prize in BMJ awards category in December 2018 for Ph.D. thesis entitled, "Epidemiological Study of Childhood Visual Impairment in Delhi".

### **Publications**

Agarwal, A., Agrawal, N., Barik, S., Gupta, N. (2018) Extended Ponseti Method for failed Tenotomy In Idiopathic Clubfeet: A Pilot Study. *J Pediatr Orthop B*. 27:425-7.

Gupta, A., Kamal, G., Sehgal, N., Bhatla, S., Kumar, R. (2018) Comparative Evaluation Of CMAC And Truview Picture Capture Device for Endotracheal Intubation in Neonates and Infants undergoing Elective Surgeries: A Prospective Randomized Control Trial- *Pediatr Anesthesia*. 28:1148-1153

Jajoo, M., Manchanda, V., Chaurasia, S., Sankar, M.J., Gautam, H., Agarwal, R. (2018) Investigators of the Delhi Neonatal Infection Study (Denis) Collaboration, New Delhi, India. Alarming Rates of Antimicrobial Resistance and Fungal Sepsis in out born Neonates in North India. *Plos One*. 28;13(6).

Kumar, M., Dabas, A., Manchanda, V., Mahajan, N., Mitra, K. (2019). Hyponatremic-Hypertensive Syndrome In Ovarian Paraganglioma. *Indian Pediatr*. 15;56(1):69-71.

Malhotra, S., Tandon, S. (2018). Cognitive Behavior Therapy for Psychogenic Cough in Children: A Case Series. *Indian J Mental Health*, 5(2);223-28.

Mishra, K., Kanwal, S.K., Sajjan, S.V., Bhaskar, V., Rath, B. (2018). Predictors of Poor Outcome in Children with Steroid Sensitive Nephrotic Syndrome. *Nefrologia*. 38(4):420-424

Mittal, M., Yadav, V., Khadgawat, R., Kumar, M., Sherwani, P. (2018). Efficacy And Safety of 90,000 IU versus 300,000 IU Single Dose Oral Vitamin D in Nutritional Rickets: A Randomized Controlled Trial. *Indian J Endocrinol Metab*, 22(6):760-765.

Sengar, M., Mohta, A., Neogi, S., Gupta, A., Viswanathan, V. (2018). Spigelian hernia in children: low versus classical. *J Pediatr Surg*. 53(11):2346-2348

Sharma, S., Dabla, P.K., Kumar, M. (2018). Status of Metabolic Bone Disease in Pediatric Steroid Resistant Nephrotic Syndrome: Study From North India: *Annals Of Clinical and Laboratory Research*, 6(2): 1-5.

Singh, L., Sengar, M., Goyal, S., Mansi, M., Khurana, N., Mohta, A. (2018). Childhood Phimosi Secondary to Lichen Sclerosus: Is There A Spatial Pattern of Histopathological Changes? *Am J Dermatopathol*. 40(11): 824-828.

## **Journals**

Published by the college: 02

Number of teachers serving as Editors/Members of Editorial Boards: 03.

## **Research Projects**

ICMR project entitled “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 Randomized Controlled Non-Inferiority Trial” of Dr. Mamta Jajoo as Principal Investigator (2018-2021). Amount Rs. 17.5 lakhs per year.

Department of Biotechnology project entitled “Pediatric Renal Biology Program: Research on Nephrotic Syndrome” of Dr. Manish Kumar as Principal Investigator. (2017-2021). Amount Rs 13.08 lakhs.

Department of Biotechnology project entitled “Endothelial Dysfunction in Children with Chronic Kidney Disease: Assessed by Biomarkers of Nitric Oxide Pathway and Flow Mediated Dilatation” of Dr. Kirti Sudha Mishra as Principal Investigator. (2018-2021). Amount Rs. 85 Lakhs.

Department of Science and Technology project entitled “Podocytopathia in Children with Nephrotic Syndrome: Can Urine Podocyte Level and its Growth Characteristics Predict Steroid Resistance” of Dr. Lavleen Singh as Principal Investigator. (2017-2021). Amount Rs. 28.5 lakhs .

Bill and Melinda Gates Foundation project entitled “National Surveillance System for Enteric Fever in India” of Dr. Karnika Sehgal as Principal Investigator. (2017-2021). Amount Rs. 23 lakhs.

## **Seminars Organized**

Dr. Nirmal Gopinathan, Additional Professor, Dept. of Orthopedics, PGI Chandigarh, 'Clinical Class-Lower Limb Examination' held at CNBC in the month of December 2018.



### **Conferences/Workshops Organized**

Quality Improvement Workshop for Maternal and Neonatal Health along with National Health Mission and Govt. of India in Collaboration with NQOCN in March 2019.

Research Methodology Workshop for Faculty and PG Students at CNBC in association with National Board of Examination in January 2018

Neonatal Resuscitation Programme (As Per AHA 2015 Guidelines) along with Indian Academy of Pediatrics in January 2018

### **Seminar / Conferences/Presentation**

Geeta Kamal delivered a Lecture entitled, “Cardiac Arrest In Perioperative Period in Neonates: Causes, Preventions & Solutions” at 66<sup>th</sup> Annual Conference of Indian Society of Anesthesiology held at Agra on 25-29 November 2018.

Mamta Jajoo delivered a talk on “Bundles for Prevention of Ventilator Associated Pneumonia in Neonates” at National Conference of Neonatology held at Varanasi from 6-8 December 2018.

### **National /International MOUs Signed**

MoU signed with ICMR for conducting research project on Neonatal Sepsis.

MoU signed with DBT for conducting research projects.

MoU signed with Norwegian Research Collaboration for conducting research in Neonatal Sepsis.

MoU signed with Maulana Azad Medical College for giving training to DNB Pediatrics students in Intramural NICU of LNJP hospital.

MoU signed with MAMC for Basic Science Classes of DNB PG Students.

### **Extension and Outreach activities**

CNBC has organized many public awareness talks in 2018 such as cancer awareness, infection prevention, hand hygiene, kidney diseases prevention, breast feeding and lactation, thalassemia, prevention of diarrhea and prevention of vector-borne diseases for patients and school children. CNBC has been officially designated a center for UDID (disability) certification by Government of India. Preventive information about various common diseases have been published in the form of a calendar and distributed widely.

### **Library Development**

In year 2018 CNBC has purchased more than 40 national and international journals both online and hard copy in various subjects of Pediatric super and subspecialty.

### **Faculty Strength**

Total sanctioned faculty: 35

### **Financial Allocation and Utilization**

Grant sanctioned : Rs. 84 crore

Grant utilized : Rs.76.77 crore

### **Other Significant Information**

CNBC has got possession of 9480 square meter of land from DDA (across the road) for the construction of new super specialty block with OPDs, super specialty OTs and wards and expansion of present services.

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## COLLEGE OF NURSING

### ARMY HOSPITAL (RESEARCH & REFERRAL)

#### Major activities and achievements

College Day was celebrated on 4 August 2018 with Lt Gen U K Sharma, Commandant AHRR as Chief Guest and Maj Gen Annakutty Babu, Addl DGMNS as Guest of Honour. College released the third edition of college magazine "Tarangini" during the occasion. First Batch of 30 students commissioned into Military Nursing Service on 24 August 2018 after completing 4 years B.Sc. (Hons) Nursing Course. Students of this college participated in different intra and inter-college Student Nurses Association competitions and brought laurels to the college.

#### Students with Distinctions

N/Cdt Arunima G P of B.Sc. (Hons) Nursing (Final) secured 2<sup>nd</sup> position in University.

N/Cdt Dixeena O A of B.Sc. (Hons) Nursing (Final) secured 3<sup>rd</sup> position in University.

N/Cdt Ashpreet Kaur of B.Sc. (Hons) Nursing, I semester secured 1<sup>st</sup> position in University.

#### Publications

Dogra, K. (2019). User perspectives of hospital information system in a quaternary level hospital", *International Journal of Scientific Research*, 8(2): 7-11.

#### Seminar Organized

Lt Col Mary Priya A V, Associate Prof, College of Nursing, AHRR, Lt Col Sartaj, 17 August 2018, Needle stick injury

Lt Col A D Chaudhuri, Associate Prof, College of Nursing , AHRR, 5 June 2018, Diabetic drugs

Lt Col Suman Dhaka, 14 July 2018, Congestive Heart Disease in Children

Lt Col Dola Banerjee, Associate Prof, College of Nursing , AHRR, Lt Col Chandrika ,AHRR, 5 October 2018, Palliative Care

#### Conferences Organized

Breast Feeding Workshop and Panel discussion by Army Hospital (R&R) on 7 August 2018

Developmental care of Preterm by Army Hospital (R&R) on 17 November 2018

Soft skill for Health care professionals by Army Hospital (R&R) on November 18

#### Seminar / Conference Presentations

Dola Banerjee presented a paper entitled, "Effectiveness of oral ice chips versus saline mouth wash on prevention of mucositis on chemotherapy patients" at National Oncology Conference at TMH Kolkata on 11 October 2018.

Mary Priya presented a paper entitled, "History of Trauma Care" at a CNE on Trauma Care Nursing – Newer modalities, Perspectives and Challenges organized by Base Hospital Delhi Cantt on 09- 10 February 2018.

Jilmy Anu Jose presented a paper entitled, "Moral accountability in Nursing during emergency and disaster" at a CNE on Trauma Care Nursing – Newer modalities, Perspectives and Challenges organized by Base Hospital Delhi Cantt on 09- 10 February 2018.

Kumud Dogra presented a paper entitled, "Gynaecological Trauma" at a CNE on Trauma Care Nursing – Newer modalities, Perspectives and Challenges organized by Base Hospital Delhi Cantt on 09- 10 February 2018.

Renjini Gopalakrishnan presented a paper entitled, “knowledge and attitude among women regarding cervical cancer” at Onco Vision on 23 February 2019.

### **Placement details**

Number and percentage of students placed: 30 (100%)

### **Extension and Outreach activities**

Street play on “Beti Bachao Beti Padhao” was organized by Urban Health Centre Dwarka in Mar 2019. School Health Programme at Govt Primary School Najafgarh was conducted by III year B.Sc. (Hons) Nursing Cadets on 21 Feb 2019. An awareness campaign on “Measles Vaccination” was conducted by III year B.Sc. (Hons) Nursing Cadets in Feb 2019. All students participated in “Awareness campaign for organ donation” on 13 Mar 2019.

### **Library Development**

Total No. of books in : 5000

Total number of books in Army Hospital (R&R) library : 10000

### **Faculty strength**

Total permanent faculty: 19

Total Ad-hoc faculty: 3

### **Financial Allocation and Utilization**

Grant sanctioned: ACG grant of Rs 48,04,111/-; TTIEG grant of Rs 18,08,000/-; IHQ Fund of Rs 2,00,000/-

### **Other Significant Information**

College of Nursing Army Hospital (R&R) also conducts six Post Basic Diploma Speciality courses in Nursing along with B.Sc. (Hons) Nursing which are recognized by Indian Nursing Council. Syllabus on Haematology Nursing and Stem Cell Transplant and Post Basic Diploma in Burns Nursing also developed and approved by Indian Nursing Council which are presently awaiting the approval of MoD. The first batch of Graduates of B.Sc. (Hons) Nursing commissioned on 24 August 2018 and second batch of students waiting commissioning following publication of Final Year B.SC. (Hons) Nursing result by DU.

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## **COLLEGE OF VOCATIONAL STUDIES**

### **Major activities and achievements**

Dr Shalini Singhal, Associate Professor, Department of History supervised a Ph.D. thesis in the Department of Buddhist Studies, University of Delhi, thesis entitled ‘Bauddh Dharma ke Vikas Mein Nalanda Mahavihar ka Yogdan: Ek Sanskritik Adhyayan’. Dr. Chaudhary's paper focused on historical perspective of Indology and Hindi studies was accepted by the high level decision-making committee of the Ministry of External Affairs for presentation at 11th World Hindi Conference. As a result, he delivered lectures at two different sessions of World Hindi Conference held from 18th to 20th August, 2018 in Mauritius.

### **Publications**

Madan, N. (2018). Revising American Literature: Select Short Stories and Poem ISBN 93-87914-2.

Tiwari, V. (2019). Kumbh Mela Itihas ke Aaine Mein, Keshav Samavad ISSN No: 2581-3528, 20-22

## **Journals**

Number of college teachers serving as Editor(S)/Member(s) of Editorial Board: 01

## **Seminars Organized**

Ms. Shivani Chhabra, 'Digital Marketing' on 31 August 2019.

Dr. V.Kalyani, 'Musings on Museology' on 30 January 2019 by History Society.

Dr. Shubha Banerji, "Museology: A Curators Perspective", on 30 January 2019 by History Society.

## **Seminar/Conference Presentations**

Diwakar Kumar Singh, presented a paper entitled "Nalanda and Buddhist Pilgrimage : Exploring the Silk Route Connections" during the International Conference on Indian contribution to Central Asian Art and Culture organised by IGNSA, New Delhi. on 29- 30 March 2018 ,

Virendra Singh Bithoo, presented a paper, entitled, "Representation of Gender in Jyotishshastra" in Center for Advance Studies in South Asia, Kathmandu, Nepal.

## **Placement details**

Students Applied vs. Placed ratio: 9.22 (100/922)

No of Companies for Placements: 43

No of Companies for Internships: 42

## **Extension and Outreach Activities**

On 5 and 7 September 2018, an awareness drive was conducted for the non-teaching and teaching staff of the college, to highlight the hazardous and catastrophic effects of single-use plastics on our health and environment. The college participated in the 'Swachhata Hi Seva' programme of the Ministry of Sanitation and Drinking Water to make a difference in our environment and spread awareness regarding waste segregation , cleanliness and plastic pollution. On 28 October 2018, the volunteers participated in the ' The National Youth Campaign' held in Talkatora Stadium and became a part of a Panel Discussion on 'Eradicating Corruption: building a new India' on 30 October 2018, at IIT-Delhi. NSS-CVS next organized a 'Unity Run Drive' in the college ground on 1 November 2018. A 'Street Play' by the children of Jasola village in Lajpat Nagar on 23 December 2018 was held.NSS-CVS also organiaaed a 'Blood Donation Camp' on 23 February2019.

## **Library Development**

Books in stock-57501.Internet facilities upgraded: Wi-Fi Connectivity, Laptop Connectivity and E-Resource to library users through Infflibnet facilities. The teachers are given the access to e-resource of UGC/INFLIBNET N-list & Delhi University Library System for academic activities/research work in their respective areas.

## **Faculty Strength**

Total permanent: 41

Total Ad-hoc : 71

## **Financial Allocation and Utilization**

Grant sanctioned: Rs. 20,09,50775/-

Grant utilized: Rs. 19,11,29869/-

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## DAULAT RAM COLLEGE

### Major Activities and Achievements

The academic year 2018-19 witnessed surge of academic activities by teaching faculty of the College. More than 150 research articles were published by them. Senior faculty members were also engaged in supervising Ph.D. students under them. The college organized its first INSPIRE (Innovation in Science, Pursuit of Inspired Research) Science camp, sponsored by Department of Science and Technology (DST), Government of India from 17 to 21 December, 2018. Around 150 students from various schools of Delhi NCR region actively participated in the camp. The College organized 7 In-house skill development certificate courses. The activities of departmental association were enriched by eminent speakers and experts which helped students to broaden their horizon. The year saw completion of 50 years of academic excellence of Botany Department. Approximately 92 eminent professors, scientists, Speakers, Justices, Administrators visited College in different programmes during the year.

### Honours

Dr. Sonia Mehta, Senior Assistant Professor, Department of Philosophy awarded with Prof. Sohan Raj Laxmi Devi Tater (Raj) Best Book in Philosophy of the year Award for the book titled, "The Problem of Meaning in Indian Philosophy".

### Students with Distinctions

The all-round best student award was given to Ms Rahesha Sehgal of B.A Program.

The college has instituted Prof. Madan Mohan Prasad memorial Prize awarded to a student having attained international recognition in Academics/Extra Curricular/Sports. The prize was awarded to Akanshya Satapathy of Bio Chemistry (Hons). She is a renowned Odissi dancer and has been performing in India and abroad.

Nandini Puri secured I position in M.A (Previous and Final) in Political Science) in Delhi University

Kamlesh Secured III position in M.A (Hindi) in Delhi University

14 students were awarded University Meritorious Award 2018-19 by University of Delhi.

### Publications

Khosla, M. (2018). Hinduism and Healing" in R. Moodley (eds) *The Routledge International Handbook of Race, Ethnicity and Culture in Mental Health*, Routledge, Canada.

Mehta, S., Senrunga, A. (2018), North East india: the Untapped Tourism Industry, New Delhi, *Krishna Sanskriti Publications*.

Naorem, D. (2018). Remembering Japan Laan Struggle for Relief, Rehabilitation and Compensation. *North-East Scholar Journal*.

Prabhakar, M. (2018). India as a Model for Global Development. Newcastle upon tyne, England *Cambridge Scholars Publishing*.

Roy, S. (2018). Study of Morphological, Structural, Optical and Transport Properties of Gallium Nitride Nanodots Fabricated Under Exterme Plasma Conditions. *Proceedings of Academics World 108<sup>th</sup> International conference on Nano Science, Nanotechnology and Advanced Materials*. Pp:1-5 ISBN: 978-93-88350-97-6

Roy, Sa (2019). Zinc Oxide Nanostructures Fabricated Under Extrenely Non-Equilibrium Plasma Conditions. *Solid State Phenomena*. 287: 75-79.

Sharma, K. (2019). Trends in Sport and Recreation Participation. *International Interdisciplinary Research Journal*. 9(1) 10-20.

### **Journals Published by College**

Women Development Cell of the college released the fourth edition of its bilingual magazine- “Shreshta” on 8<sup>th</sup> March, 2019, the International Women’s Day.

### **Seminars organized**

“Social Media As Perceptively Impactful Watchdog over Mainstream Media” on 1 November 2018, Dr. Vandana Tripathi, the Indian Council of Social Science Research.

### **Conferences Organised**

International Conference on “North East India: Exploring Philosophy, Culture and Environment Sustainability”, 10-11 January 2019, Indian Council of Philosophical Research and P.A. Sangma Foundation.

International conference on “Integrating Traditional Indian Healing Practices with Contemporary Western Health System”, 8-9 January 2019, Dr. Rajni Sahni, ICSSR.

### **Seminar/Conference Presentations**

Savita Roy presented paper entitled “Study of Structural, Morphological and Electrical Transport Properties of Lon Irradiated Ga As Nanostructures” at 33rd National Symposium on Plasma Science and Technology (PLASMA 2018) held at Department of Physics and Astrophysics, University of Delhi, 4-7 December 2018.

Deepak Naorem presented paper entitled “War Tourism? Reviving War Memories, Remembrance, and Economic Building in North East India” in conference Post-war : remembrance, Recollection, Reconciliation at the Oxford Research center in the Humanities, University of Oxford on 26 May 2018

Kavita Sharma presented a paper entitled “Effect of Outdoor Equipment Fitness (OEF) Circuit Training on Sedentary Female Population”, in International Conference on Olympics and Indian Values in Global Context held at Kirorimal College, University of Delhi, 25-27 September, 2018.

Meetu Khosla presented paper entitled ‘Role of Religious Commitment and Cultural Practices on Anasakti and life Satisfaction: Implications for Health and Well Being’, AIACCP, International Conference for Cross-Cultural Psychology Congress, Multiculturalism in a global Perspective : benefits and challenges, University of Guelph, Canada, 1-5 July 2018.

Meetu Khosla presented paper entitled “A Cross-Cultural Comparison of the Traditional Healing Practices in India and Canada”, at the Conference on Engaging India and Canada: Challenges and Sustainable Development Goals by Shastri Indo-Canadian Institute, IIC, 8-9 June 2018.

Monia Prabhakar presented paper entitled “All Humans (By Nature) Desire Happiness” Analytic Aposteriori?” at the World Congress of Philosophy organized by Peking University, Beijing, 13-20 August 2018

Monica Prabhakar presented a paper entitled “Swami Vivekanand’s Spiritual Universalism: Uniting All Cultures in the Modern Global Village” at International Conference on Spirituality. And.. Culture organized by Progressive Connexions Interdisciplinary Life at Lisbon, Portugal, 17-18 March 2018.

### **Placement Details**

Number of the students placed: 100

Number of the companies visited: approximately 20

### **Extension and Outreach Activities**

National Social Service (NSS) organized for its students Self Defence Workshop, Senior Citizen Day, National Unity Day, Swachta Pakhwada, Blood Donation Drive, Voters Forum Campaign. The students rendered their services in Youth for Seva movement, Bharat Uday Abhiyan, plantation drive. The members of Women Development cell (WDC) of our college have been visiting PALNA orphanage and the volunteers have been devoting regular hours, visiting and teaching children ranging from Pre-Nursery to class VIII.

### **Library Development**

Books added during 18-19: 1430

Total Books in the Library: 1,16,489

### **Faculty Strength**

Total permanent: 67

Total Ad-hoc: 116

### **Other Significant Information**

College has a recycling unit on campus which recycles the paper and other organic waste. The aim of this unit is to make campus Zero waste discharge Unit.

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## **DEEN DAYAL UPADHYAYA COLLEGE**

### **Major Activities and Achievement**

College achieved the distinction of being ranked 6<sup>th</sup> in Delhi (Science Colleges) and 11<sup>th</sup> Rank in India by the India Today-MDRA Best Colleges Ranking 2018. Among Commerce colleges in Delhi the college was ranked 9<sup>th</sup> and 17<sup>th</sup> Rank in India by the India Today-MDRA Best Colleges Ranking 2018. NIRF India Rankings 2019: The Ministry of Human Resource Development (MHRD) has conducted an All India survey through National Institutional Ranking Framework (NIRF) in which the college was ranked 16<sup>th</sup>. The faculty members published 63 articles in International/National journals and periodicals, 24 books/chapter in books and 28 papers were presented in conferences and seminars. They delivered 34 lectures in conferences and seminars whereas Poster presentations and oral presentations were 15 and 27 respectively. The pass percentage in the university examination held in May/June 2018 was 97.18%.

### **Honours/Distinctions**

Dr. Rajkumari Sanayaima Devi was awarded “Meritorious Lecturer Award” for the year 2018-19 by the Government of NCT of Delhi. The award comprises a certificate and a cash prize of Rs. 1 Lakh.

Dr. Sudhir Verma received Summer Research Fellowship from Science Academies (IASc-INSA-NASI) to work under Prof. Ramaballav Roy, Goa University.

Dr. Pramod Kumar was awarded degree of Doctor of Philosophy (Ph.D.) on the topic Study of Aerosol Optical Properties and Fine Mode Fraction variations over Delhi using MODIS data, by Guru Gobind Singh Indraprastha University on September 26, 2018.

### **Students with Distinctions**

Aman Saini from BA(P) III Year, Silver medal in Archery at Asian Games, Jakarta, 18 Aug – 02 Sep 2018

Archana from B.Sc. Physical Science (Chemistry), Prerna Gulia and Geetu from B.Sc. (H) Mathematics, and Sahil Nishal from B.Sc. (H) Computer Science received the Meritorious Award of Rs. 10,000 each from the Directorate of Higher Education, Government of NCT of Delhi.

Ten students from B.Sc. (H) were awarded Under Graduate Science Meritorious Award, by the University of Delhi, in the form of reimbursement of books purchased by them.

DeepJyoti Sapkota BSc (H) Physics 2<sup>nd</sup> Year won 1<sup>st</sup> Prize at the Annual Technical Fest, NSUT, Delhi.

### **Publications**

Singh, A.K., Dimri, M., Dawra, D., Jha, A.K., 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*, 52: 27-99

Rajpal, A., Mishra, A., Bala, R. (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.

Kumari, R., Prajapati, S., Sharma, R., Kaul, S., Kalra, C. (2019) The Exigency of Soil Restoration and Remediation. *Journal of Agroecology and Natural Resource Management*, 6(3):88-91, p-ISSN: 2394 – 0786, e-ISSN: 2394 – 0794.

Jain, H.C., Tiwari, H. N. (2018), Determinants of Capital structure in Indian Pharmaceutical Industry, *International Journal for Research in Engineering Application & Management*, Vol. 4, Issue 7, pp. 337-345, ISSN: 24549150.

Dahiya, S., Singh, K., Chaudhary, S.K., Devi, M. (2018) X-Ray Switching Studies of Pure Lead Oxide and its Composite with Poly Methyl Methacrylate, *International Journal of Electronics, Electrical and Computational System IJEECS*. 7(4) ISSN 2348-117X

Lalit, K. (2018) A Language without a State: Early Histories of Maithili Literature, *Studies in Humanities and Social Sciences*. Ed. Sumanyu Satpathy, Shimla: *Indian Institute of Advance Studies*, XXV(1): pp 15-29, ISSN 0972-1401.

Kumar, S., Kumari, V., Singh, S., Saxena, M., Gupta, M. (2018) Reconnoiter the Leavening of Skin- Deep Insulated Extension On Analog Performance of RingFET, *AEU-International Journal of Electronics and Communications* 83:67-72.

Ameer, S., Jindal, K., Tomar, M., Jha, P.K., Gupta, V. (2019) Insight into Electronic, Magnetic and Optical Properties of Magnetically Ordered Bi<sub>2</sub>Fe<sub>4</sub>O<sub>9</sub>, *Journal of Magnetism and Magnetic Materials*, 475:pp.695-702.

### **Journals**

Number of college teachers serving as Editor(s)/Member(s) of editorial boards: One

### **Research Projects**

Dr. P.K. project on “Fabrication of Lamb Wave Devices on SiO<sub>2</sub>/Si Membrane For Strategic Applications” starting 26 March, 2019. Sanctioned amount Rs. 428 Lakhs from DRDO

Dr. AK Singh, project on “Study of Atomic Processes for Multi-Charged Ions for Plasma Diagnostics” Sanctioned amount Rs. 44,07,480 from DST-SERB (2017-2020)

Dr. P.K. Jha Project on “Dynamics of Coupled Quantum Dots in a Semiconductor Micro-Cavity: Feasibility of Building all Optical Switches” Sanctioned amount Rs. 31 Lakhs from Science & Engineering Research Board (SERB)

Dr. Manoj Saxena project on “Layout Optimization and Thermal Analysis Swtchlng Applicatlons and LNA Design” sanctioned an amount of Rs. 23 lakhs by CARS, DRDO for a one-year project (2019-2020).

Dr. Sunny Manohar, project on “Magnetically active ionic liquids: Design, Synthesis and their Applications in Organic. Sanctioned amount of Rs. 6 lakhs by the UGC for a two-year project (2018-2020)



### **Patents Filed / Granted**

Dr. Sunny Manohar co-authored a US patent. Diwan S. Rawat, Binghe Wang, Nitin Kumar, Sunny Manohar, Xiaochuan Yang, Guojing Sun and Nanting Ni “*Curcumin analogs and methods of making and using thereof*” United States Patent US9884825B2 (2018).

### **Seminars Organized**

Dr. HP Roy as convenor organized A one day National Seminar on Lok Sabha Election, 2019, at Deen Dayal Upadhyaya College, University of Delhi, on 26 March 2019.

Dr. AK Singh as Convenor in association with Aryabhata Science Forum (ASF) organized a Seminar on Recent Advances in Atomic and Molecular Physics on September 19, 2017 and Dr. AK Singh jointly with DST Research Lab and Aryabhata Science Forum (ASF) organized a Seminar on Confined Quantum Mechanical System on 20 February 2019.

Dr. Rajan Gupta organized A Seminar on Open Government Data Platform – India under Data Analytics Club, Deen Dayal Upadhyaya College on 19 September 2018.

Dr. Poonam Garg and Dr. Mamta Amol Wagh as coordinators organized A five-day workshop on Numerical Methods and its Applications in various Allied Fields of Sciences with MATHEMATICA under the aegis of DBT Star College Program from 17 –22 September 2018.

### **Conferences organized**

Deepa Kamra as co-convenor organized the ICSSR sponsored XX Annual International Conference on the theme Global Vision 2030: Challenges and Opportunities at Deen Dayal Upadhyaya College, New Delhi, organized by the Department of Management Studies in association with Delhi School of Planning and Research Studies, GGS Indraprastha University

on 4-5 January 2019.

R. M. Bharadwaj as convenor organized the International Conference on Centres of Educational Excellence and Sites of Knowledge in Early India up to 13th Century A. D: History, Dimensions and New Researches on 12-13 October 2018.

### **Seminar/Conference Presentations**

Arpita Sharma presented a paper on Awakened Leadership for Crises Management in three days International Conference of Indian Society for Indic Studies at SOL, Delhi University from 20-22 February 2018.

H. P. Roy presented a paper on Internal Security: Interrogating Maois, in an International Seminar on Indian Strategic Culture and Policy Options, Department of Political Science, Pondicherry University from 25-27 February 2019.

Yogieta Mehra presented a paper on Monetary Policy impact on Inflation in India at ICSSR Sponsored XX International Conference on Global Vision 2030: Challenges & Opportunities organized by DSSR at Deen Dayal Upadhyaya College from 4 -5 January 2019.

Rakesh Kumar presented a paper on India & South Asia: Geopolitics, Trade Linkages and Growth Spillovers at the International conference on Analytics for Economics and Management 2018 organized by School of Economics and Management, National Research University, Higher School of Economics, Russia during 21-22 September 2018.

Mamta Amol Wagh presented a paper on Duals of Some Entire Bicomplex Spaces at the Mini – symposium in Mathematics organized by Department of Mathematics, Deen Dayal Upadhyaya College, University of Delhi on 22 – 23 February 2019.

Kamlesh Kumari presented a paper on Role of Science, Technology and Management for Employment Generation in India at a National Seminar organized by G.G.D.S.D. College, Palwal, Haryana on 6 October 2018.

Anchal Garg, Pramod Kumar and NC Gupta presented a paper on BTEX Emissions and Its Associated Health Risks on Human Health in Outdoor Air of Delhi at the Science Festival TURIYOJAS, 2019 at Deen Dayal Upadhyaya College, University of Delhi, Sector-3, Dwarka, New Delhi on 11-12 February 2019.

R.M. Bharadwaj presented a paper on Historicity and Textuality of the Kumbh at the Crafts Museum, Ministry of Textiles, Govt. of India, organized POORNA KALASH: KUMBH 4-day Festival at Pragati Maidan, New Delhi on 6-9 December 2018. The Times of India, Thursday, 6 December 2018.

Mahaveer Genwa presented a paper on Recent Developments in Interdisciplinary Research in the Indo-US Colloquium at Hansraj College, University of Delhi, 2 July 2018.

Shivangi Das and Sandeep Kumar presented a paper on Child Health and Socio Economic Condition, An Inseparable Reality in Science Festival-TURIJOYAS 2019 at Deen Dayal Upadhyaya College (University of Delhi), Sector-3, Dwarka, New Delhi, India-110078 on 11-12 February 2019.

### **National/International MoUs Signed**

MoU signed with I3indya Technologies on 20 May 2018

MoU signed with Keysight Technologies, Inc on 31 October 31 2018

MoU signed with PhiXgen Pvt. Ltd. on 3 May 2019

MoU signed with ICT Academy on 2017-2018

MoU signed with Quick Heal Academy on 3 June 2019

MoU signed with National Institute of Immunology (NII) on 12 March 2019

MoU signed with Translational Health Science and Technology (THSTI) on 26 April 2019

### **Placement Details**

Percentage of students placed: 7.44%

Number of companies visited for campus recruitment: 7

### **Extension and Outreach Activities**

An Institutional Visit was organized to Institute of Genomics & Integrative Biology (IGIB, Mathura Road Campus) during "Open Day" (Outreach Activity) on 27<sup>th</sup> September, 2018. Bani School Innovation Camp III (BaSIC III) was organized at Govt. Senior Secondary School, Bani, Hamirpur, Himachal Pradesh in association with Indian National Science Academy (INSA). "Lectures by INSA Fellows/Young scientists/teacher awardees to young students and teachers of schools and colleges in the remote/rural areas", Department of Zoology, University of Delhi and Ramjas College, University of Delhi. (Chief Coordinator: Prof. Rup Lal, BaSIC III Coordinators: Dr. Shailly Anand of DDUC and Dr. Sukanya Lal of Ramjas College, Co-coordinator: Dr. Sudhir Verma) on 13-16 October, 2018. Four Day Outreach Program for Class X students of Kendriya Vidyalaya, Sector-12, Dwarka was organized under the aegis of NASI-Delhi Chapter, Science Foundation and DBT Star College Program.

### **Library Development**

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 961 volumes of books this year, making its total collection as 45,590 volumes of books. The library subscribes to 72 journals &

magazines of national and international repute in the relevant subject areas. Besides this, the library subscribes to 15 national newspapers. It has 613 bound volumes of journals/ periodicals and 850 CDs in its collection. The entire collection is heavily used by students with approx. 51000 transactions in the preceding year. Interested students of the weaker sections were also issued books under bank facility.

### **Faculty Strength**

Total permanent: 94

Total Ad-hoc: 32

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 357179170/-

Grant utilized: Rs. 326406977/-

### **Other Significant Information**

An Exhibition was organized to showcase the Handloom products and handicraft items of Sikkim in the foyer of the college auditorium. The cultural program included the famous Mask dance and Yak Cham dance of Sikkim followed by various competitions. The first-ever North-east Festival in the college was organised in order to create a platform for the students and showcase the culture of the region. DHUL performance by Prachurjya Borgohain, a famous artist who has won many awards and is the National and State award winner for 4 consecutive years as the best DHULIA and best folk singer. Photo Booth, art exhibition, inter-college folk dance and singing competitions were also organized. Students from eight colleges participated in the folk singing competition. Participants from seven colleges actively competed for the art competition. Six College groups participated in the Group Folk dance competition. The famous Mask dance and Yak Chaam dance of Sikkim were performed to showcase the culture of Sikkim.

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## **DELHI COLLEGE OF ARTS AND COMMERCE**

### **Major Activities and Achievements**

Ambedkar Jayanti talk, 15 April 2019 on Mahatma Jyotiba Phule and Dr Bhimrao Ambedkar, SC/ST/OBC Cell. Mental Awareness panel discussion on November 2018, addressed by Psychologists Dr. Neetu Rana, Dr. Sujatha Sharma, Dr. Ruchika Kanwal, Dr. Avdesh Sharma. Lectures by: Professor Rajkumar, Head, Department of English, University of Delhi, "Dalit Literature: Text & Context", 9 April 2019; Prof. Santosh Mehrotra, Jawaharlal Nehru University, 20 February 2019; Prof. Swaran Singh, School of International Studies, Jawaharlal Nehru University, 5 March 2019; Padmashree awardee, founder Zubaan Publishing, Ms. Urvashi Butalia, 'Reading Women, Writing Women: Towards a Literature of Their Own', 13 March, 2019, along with Delhi University Inter college Student Paper Presentations. The College Basketball Team secured 1<sup>st</sup> Position in BITTS PILANI Goa Campus Sports Fest 2018-19, IIT Kanpur Sports Fest 2018-19 and New Delhi Institute of Management Annual Sports Fest 2018-19. College Cricket team won the 2<sup>nd</sup> SGND Khalsa Cricket Tournament 2018-19 held at Talkatora Stadium.

### **Honours/Distinctions**

Dr Amrit Kaur Basra (History) has been awarded for her distinguished social service at MTNL Perfect Health Mela on 25 September 2018.

### **Students with Distinctions:**

Bhavyansh Mathur, B.A. (Hons.) History, Sem VI, presented a paper on Jyotibha Phule in Undergraduate Researchers Conference 2019 held at Hansraj College, University of Delhi and won the Best Paper award.

## **Publications:**

Anita. (2018). E-Governance A Critical Analysis and Development of an Effective Model *Shivalik Prakashan*, Delhi ISBN- 978-93-87195-35-6.

Basra, A.K. (2018). Lived Experiences of Sikh Women in Canada: Past and Present in Amba Pande (edited). *Women In Indian Diaspora,:Historical Narrative and Contemporary Challenges*, Springer. ISBN 978-981-10-5951-3.

Goel, R.K., Goel, I. (2019). *Concept Building Approach to Management Accounting*. Cengage Learning Pvt Ltd, New Delhi. ISBN- 13:9789353500368.

Gupta, S., Saksena, S., Baris, O. F. (2019). Environmental enforcement and compliance in developing countries: Evidence from India. *World Development*, 117: 313-327.

Kumar, S. (2019). *Dalit Sanskriti Ka Lok*. Shree Natraj Prakashan, Delhi. ISBN 978-93-86113-28-3.

Kumari, M., Sharma, M., Singh, V. B. (2018) Severity Assessment of a Reported Bug by Considering its Uncertainty and Irregular State. *International Journal of Open Source Software and Processes (IJOSSP)*, 9(4), 20-46, ISSN: 1942-3926, indexed in SCOPUS and DBLP.

Pandey, S. (2018). Party System in India: Changing Paradigm, *The Discussant*, Vol. VI, No. 3, July-September, 48-53. ISSN-2250-3412.

Singh, O. (2019). The Archaeology Of Iron And Social Change In Early India. *Primus Books*, New Delhi. ISBN 9789352904631.

## **Research Projects**

Dr Shalini Saxena: National Council of Educational Research and Training, 2017-18, a module on GST for NCERT's MOOCs project

Ms Meera Malhan: Central Institute of Educational Technology, NCERT, Delhi, June-November 2018, Reviewing and developing Economics Modules for Class XII for final review and script writing of videos for MOOC

## **Seminar/Conference Presentations**

Madhu Kumari presented a paper entitled, "Predicting the fix time of a reported bug using Radoop: A Big Data Approach" in the 9<sup>th</sup> International conference on " Quality, Reliability, Infocom Technology and Business Operations" organized by University of Delhi, Delhi, India, During 27-29 December, 2018.

Smita Banerjee presented a paper entitled, "Melodrama and Postcoloniality : Self fashioning in Popular Bengali Cinema of the 1950s-70s". International Conference *Asia in Motion: Geographies and Genealogies AAS-in-Asia AAS* and Asoka University India Habitat Centre New Delhi 5-7 July 2018.

Renu Singh presented a paper entitled, "Dalit Language and Literature: A tool of Protest and Resistance" in National Seminar *(Re)Defining Marginalities* organised by Zakir Hussain College(Evening) 16 March 2019.

Animesh Mahapatra presented a paper entitled, "Worldliness of the Otherworldly: Dissemination of Devotion in the Cassette Era", workshop "Bonding with the Lord: Uses of Jagannath in Community Formation and Popular Culture in and Beyond Odisha" at IIT Madras , 10-11 September 2018,

Srikant Pandey presented a paper entitled, "Societal Identities and Party System: A Case Study of India" at the Sixth Northern Regional Social Science Congress, held at J R N Vidyapeeth, Udaipur , 18-20 January 2019

Mukesh Bagoria presented a paper entitled, "Mahatma Gandhi's Perspective on Indian Languages" at a National Conference on Mahatma Gandhi's Vision and Structure on National Language, organised by Gandhi Bhawan, University of Delhi and National Urdu Development Council, New Delhi, 23-24 October 2018.

Amrit Kaur Basra presented a paper entitled, "Sikhism: A Perspective" Seminar at India International Centre, New Delhi 5 January 2019.

K. Suresh Kumar presented a paper entitled, "Reconstructing the Question of Gender in Tamil Epics: A case Study of Manimekkalai" Workshop on Tamil Literature Centre for Indian Languages JNU and Sahitya Akademi.

### **Other Inter-Institutional Collaboration**

The Internal Complaint Committee in association with the Gender Sensitisation Committee of DCAC organised a talk by noted lawyer and Programme Officer Ms. Barsha Mishra, from Multiple Action Research Group (MARG) a legal assistance firm, on 10<sup>th</sup> September 2018 on "The Sexual harassment of woman at workplace, prohibition and redressal Act 2013" .

The Internal Complaints Committee in association with the Gender sensitization cell organized "DIGITAL SHAKTI WORKSHOP" by Cyber Peace Foundation in collaboration with National Commission for Women, New Delhi on Digital Literacy and Online Safety with a special focus on women safety on 1st March, 2019.

A half day workshop on Sexual harassment was organized on 11th October 2018 by MARG (Multiple Action Research Group) sponsored by and in association with The British High Commission, New Delhi.

### **Placement Details**

Number of students placed:88

Number of companies visited for campus recruitment: Approximately 70

### **Extension and Outreach activities**

Under Project Tanzeal, students taught 120 students from the neighbouring slum on the campus on weekdays. A holistic teaching module has been prepared to take care of mental and physical needs of students. Through the help desk old books were collected in accordance with needs of students. All important national days and festivals are celebrated with them. Project Taaleem and Project Saahas aimed at revolutionizing the education sphere for refugees through an active story based curriculum and providing low cost prosthetic bras to breast cancer survivors who have undergone mastectomy and breaking the taboo respectively. Enactus DCAC organized Think Pink'19- Panel Discussion on role of youth in breast cancer awareness that was attended by panelists by organizations such as Win Over Cancer, ouwecan, Roko Cancer, Indian Cancer Society and Cheers to Life Ngo.

### **Library Development**

The total number of 751 books are added during 2018-19. The library organized Book exhibition to explore options and suggestions to enrich collection in the Library. E-resource services and facility access through e-resource section as well as from home through N-LIST & DELNET. Current awareness section equipped with magazines, newspapers and comparative books (Banking, Railways and other SSC exams). Adopted Open access system. Provided facility of previous year question papers of different discipline and journalism project for reference facility. Displayed new arrivals through college website.

### **Faculty Strength**

Total sanctioned faculty: 48

### **Financial Allocation and Utilization**

Grant sanctioned: Rs.30,05,76,000/-

Grant utilized: Rs.27,53,96,000/-

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## DELHI INSTITUTE OF PHARMACEUTICAL SCIENCES AND RESEARCH

### Major activities and achievement

DIPSAR is a place where all the faculty members are involved in the research and teaching activities and have published more than 50 papers (research as well as review) and book chapters in peer reviewed national & international journals of repute. Various events such as Pharmacist Day, Gurupurab, Saraswati Puja, Sports Day, Freshers Day, Teacher's Day, Annual Day and Independence Day along with industrial tours, conferences, workshops were organized by the Institute in 2018-19 session.

### Honours /Distinctions

National Institutional Ranking Framework (NIRF) Ranking 2019 by MHRD, GOI for DIPSAR is 26 out of 301 entries in Pharmacy.

Best Poster Paper Award in various conferences: Four (in Pharmaceutics Department to Dr. Meenakshi K Chauhan and two in Pharmaceutical chemistry Department to Ms. Amrita Parle.

Mr. Pankaj Gupta student of B.Pharm. 4th year DIPSAR scored 8th rank in GPAT 2019. A total of 38 students cleared GPAT 2018 from DIPSAR.

### Publications

Chauhan, M.K., Bhatt, N. (2018). Bioavailability Enhancement of Polymyxin B with novel drug delivery: Development and Optimization using Quality-by-Design Approach. *Journal Pharmaceutical Sciences*, 108(4): 1521-1528.

Goswami, M., Bhatt, N., Sharma, P.K., Chauhan, M.K. (2018) Design and fabrication of a magnetically actuated non-invasive reusable drug delivery device. *Drug Development & Industrial Pharmacy*, 44(7): 1070-1077.

Kalyan, S., Parle, A. (2019) Quality by design: changing outlook of pharmaceutical development. *International journal of Pharmaceutical sciences & Research*, 10(7): 1000-1009.

Latha, S., Yamini, P., Mathur, R. (2018). Evaluation of antiangiogenic potential of *Psidiumguajava* leaves using In-Ovo chick chorioallantoic membrane assay. *Pharmacognosy Magazine*, 14: S284-93.

Malhotra, M., Gupta, S.K., Prakash A. (2019). Sitagliptin: A drug review. *Delhi Diabetic forum*, 28(1):20-21.

Nair, J.C.V., Khan, M., Anjum, V., Ahamad, S., Mathur, R.(2018). Gas chromatography- mass spectrometric determination of components of leaves of *Aeglemarmelos* and *Psidiumguajava* and seeds of *Nigella sativa* and correlation with in vitro antioxidant activity. *Pharmacognosy Research*, 10(2): 230-235.

Saxena, T., Malhotra, M., Kumar, R., Gupta, S.K. (2019). Prevalence and association of co-morbidities in diabetic patients along with prescription pattern in Delhi-NCT, India. *Diabetes & Metabolic syndrome: clinical research & reviews*, 13(2):1209-1212.

Singh, V.K., Parle, A.(2019).A comprehensive review on Benzimidazole. *International journal of Pharmaceutical sciences & Research*, 10(4): 1540-1552.

Srivastava, M., Suri, C., Singh, M., Mathur, R., Asthana, S. (2018). Molecular dynamics simulation reveals the possible druggable hotspots of USP7. *Oncotarget*, 9(76): 34289-34305.

### Research Projects

ICMR funded project entitled Impact of EMF radiation from mobile handsets on brain glucose transporters: an experimental study (2017-2020) Rs 30.18 Lakhs.

Novartis funded project Role of DPP-4 inhibitor in the management of Cardiomyopathy in streptozotocin induced experimental diabetes (2017-2019) Rs20.5 Lakhs.

### **Conference/Seminars Organized**

AICTE sponsored XXVIII QIP on Recent Advances in Pharmaceutical Sciences, 11-15 March 2019.

AICTE sponsored XXIX QIP on Currents Trends in Pharmacy, 8- 12 April 2019

AICTE sponsored XXX QIP on Updates In Fields Of Pharmacy, 25-29 March 2019

AICTE sponsored XXXI QIP on New Trends in Pharmaceutical Sciences, 1-5 April 2019

### **Seminar/Conference presentations**

S. Kalyan presented a paper entitled, “Quality by design: changing outlook of pharmaceutical development” during the Proceedings of the 23<sup>rd</sup> annual national convention of association of pharmaceutical teachers of India; 5-6 October 2018.

S. Kalyan presented a paper entitled, “India’s e-pharma industry: evolution and challenges” Proceedings of the national conference on online pharmacy: regulatory perspectives; 1 Mar 2019.

VK Singh presented a paper entitled, “Comprehensive review on benzimidazole” during the Proceedings of the 23<sup>rd</sup> annual national convention of association of pharmaceutical teachers of India; 5-6 October 2018.

Kumar N presented a paper entitled, “Acetazolamide ethoniosomes as an ocular delivery system. International Conference on Nanotechnology and its Application to Ocular Drug Delivery System" held at Malina Pharmacy College, Ukatarsadia University, Gujarat, India on 26-28 January 2019.

Mishra J presented a paper entitled, “Chitosan Nanosomes for controlled delivery of Brimonidine tartarate in ocular delivery of open angle glaucoma” during the International Conference on Nanotechnology and its Application to Ocular Drug Delivery System" held at Malina Pharmacy College, Ukatarsadia University, Gujarat, India on January 26-28, 2019.

Sharma P presented a paper entitled, “Kinetic Modelling of Drug Release from Diltiazem Matrix Tablet Based on Nature of Matrix forming natural and Synthetic Polymer” during the International Conference on "Nanotechnology and its Applications to Ocular Drug Delivery System” held at Maliba Pharmacy College, UkaTarsadia University, Gujarat, India on 26-28 January 2019.

Prakash U presented a paper entitled, “Brinzolamide spanlastics for glaucoma. International Conference on Nanotechnology and its Application to Ocular Drug Delivery System" held at Malina Pharmacy College, Ukatarsadia University, Gujarat, India on 26-28 January 2019.

Chauhan MK presented a paper entitled, “Fabrication and Evaluation of Biomaterial Based Multipurpose 3D Scaffolds” at the International Conference on "Nanotechnology and its Applications to Ocular Drug Delivery System" held at Maliba Pharmacy College, UkaTarsadia University, Gujarat, India 26-28 January 2019

Chodon U presented a paper entitled, “Polymeric nanoformulation of Eudragit RL 100 loaded Voriconazole for ocular delivery at Indian pharmacy Graduates” during a national conference organized by School of Medical and Allied Sciences K.R.Mangalam University Sohna Road Gurgaon held on 1 March 2019 .

### **Placement details**

Number & percentage of students placed: 35 (80% placed from students enrolled for placements, other students opted for higher studies)

No of companies visited for placement: 25

### **Extension & outreach activity**

Pulse Polio Immunization Programme has been conducted successfully during the session

## Library development

At present, the library has more than 18000 books covering all branches of Pharmaceutical Sciences. The Library is well equipped and stocked with latest periodicals, books, magazines, journals and other research materials to students on a wide range of subjects and subscribes 8 International Journals and 23 National Journals. It subscribes to 6 newspapers and 12 periodicals. The library, knowledge resource center will be soon transforming into digitalization.

## Faculty Strength

Total permanent faculty : 11

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## DESHBANDHU COLLEGE

### Major Activities & Achievements

This year college has been awarded “STAR College status” by Department of Biotechnology (DBT) Govt. of India. Our student, Milan Chaudhary represented India at Intershoot Championship 2018, Munich, Germany.

### Honours/ Distinctions

Dr. Rajiv Aggarwal, Principal, has become an individual member of International Astronomical Union (IAU) in August, 2018.

Dr. Kumar Shantanu, secured All India rank 2 as Contingent Commander of Senior Division Cadets of 1Delhi AirSqn (Flg) NCC in All India Vayu Sainik Camp from October 24, 2018 to November 04, 2018 at Jodhpur.

Dr. Indrakant Kumar Singh has been conferred upon Bharat Ratna Dr. A. P. J. Abdul Kalam Memorial Grace India “Best Teacher Awards 2018” for contributions to research by Grace India Educational Charitable Trust, New Delhi, in the award ceremony held at Hans Raj College, Delhi, India on October 27, 2018.

Dr. Krishnan Unni P has been conferred upon Abu Dhabi Shakti award for the novel *Keralam :Oru Documenta* ( Received the award on 29, October 2018 in Kochi from the Chief Minister of Kerala).

Dr. Krishnan Unni P has been conferred upon Yes Press Novel award for *Keralam: Oru Documenta*( Received the award on December 27, 2018 in Perumbavoor, Kerala).

### Students with Distinctions

JUO Kumar Raushan represented Delhi Directorate in RDC 2019, Leded the contingent as the Contingent Commander and is Delhi Directorate Best Cadet 2019.

### Publications

Nautiyal, A. (2018). Biology: The science of Life and Diversity, S.K. Aggarwal, Aparna Gairi Nautiyal, Anju Chhibbar, *MEDTECH Publications*

Kumar, S. (2019) Hindi Kahaani ki Ikkeesavin sadi / Paath ke Paas: Paath se Pare. *Rajkamal Prakaashan, New Delhi.*

Mishra, M.K. (2018). Poorvavarti Kavyashastriya Avadharanaien Tatha Srimgaraprakasa, *Parimal Publications, Delhi.* ISBN: 978–81–7110–462–8, 2018

Karwal, P., Vats, I.D., Sinha, N., Singhal, A., Sehgal, T., Kumari, P. (2019) Therapeutic applications of Peptides against Zika Virus: A Review. *Curr Med Chem.* doi: 10.2174/0929867326666190111115132. [Epub ahead of print] PubMed PMID: 30636575.



Suraj, M.S., Mittal, A., Aggarwal, R. (2019) Revealing the existence and stability of equilibrium points in the circular autonomous restricted four-body problem with variable mass. *New Astronomy, Elsevier*, 68:1-9.

Gupta, K. K., Shazad, M., Kumar, S. (2019) Relevance of the Prolonged First Mating in Reproductive Bioactivities of *Dysdercus koenigii* Fabricius (Heteroptera: Pyrrhocoridae). *Polish Journal of Entomology* 88(1): 63-77. DOI: 10.2478/pjen-2019-0005

### **Research Projects**

Dr. Indrakant Kumar Singh, Department of Zoology, Pharmacophore modelling to design novel inhibitors of Mcl-1 as targeted therapy of human cancer (2019-22) (Funded by DHR/ ICMR Govt. of India).

### **Seminar Organised**

A motivational seminar on “Program Your Subconscious Mind to Achieve Success” by one of the most influential motivational speaker in India: Mr. Neeraj Singh Rathore (International Certified Business Coach) on 6 September 2018.

A seminar on “Making the First Impact: Enhancing Employability” by speaker, Ms Neeta Mathur, spearheading three Verticals-Coaching and Training, Executive Search and HR Consultancy on 4 October 2018.

A highly applauded one-day literary event “*FIRST IMPRESSION*” was organized on 1 November 2018 to provide a platform for students to showcase their literary talents through Open Mic session.

Seminar on “India's Engagement With Free Trade Agreements” by renowned Professor Biswajit Dhar from Centre of Economic Studies & Planning, JNU on 2 November, 2018 .

Seminar on “Kaviyon ke Raam” under annual programme ‘Vineeta Agrawal Smriti Rachna Paath’.

### **Conferences organised**

Two Days National Workshop on “Skill Development to build a Clean India” on 7- 8 June 2018 to celebrate World Environment Day.

A six days Teacher’s Enrichment Workshop on Differential Equations, Mathematical Modelling and Analysis (DEMMA) was conducted during 24-29 July 2018.

Faculty Development Programme, “Entrepreneurship” in Science, Technology and Management Society, Organized by NSTEDB, ABSES, Delhi University and Teaching learning Centre (under PMMMNMT Scheme) on 13-27 December 2018.

“ICPST-2019” (International Conference On “Physics, Society & Technology-2019) 17-19 January 2019 at Conference Centre, University of Delhi.

International Conference on, “Bhartiya Women Past, Present and Future” organised by Shaikshik foundation in association with Deshbandhu College, DU on 23-24 February 2019, at NDMC Convention Centre, Parliament Street, New Delhi.

### **Seminar/Conference Presentation**

Nadeem Ahmad presented a paper entitled, “Catastrophic Out-of pocket Health Expenditure and Poverty Nexus among Informal Sector Households in India: The Household Well-being Approach” at 2<sup>nd</sup> International Conference on An Uncertain World: Growth, Development and Sustainability held at FLAME university, Pune on 1-2 March 2019 and at the 16<sup>th</sup> Annual Conference of the Indian Association for Social Sciences and Health (IASSH) on Health, Well-being and Regional Development: Emerging Issues and Challenges held at Jawaharlal Nehru University, during 10 to 12 December 2018.

Nadeem Ahmad presented a paper entitled “Health Expenditure in India” in the All India International and Area Studies Convention 2019 on Ascending India: Reflections on Global and Regional Dimensions,

organized by School of International Studies, Jawaharlal Nehru University from 30<sup>th</sup> January to 1 February 2019.

Krishnan Unni P presented a paper entitled “Traumatic Spaces and Unmapped Geographies in Ghada Karmi’s Return: A Palestine Memoir” in the three-day International Conference on Trauma Studies in Literature organized by English Department, Kashmir University, Srinagar, 26-28 March 2019.

Bajrang Bihari Tiwari presented a paper entitled “Madhya Yug mein Stree Lekhan ke Aadi Hastaakshar” organized by Hindi Deptt. Banaras Hindu University, Banaras on 29-30 March 2019.

Bajrang Bihari Tiwari presented a paper entitled “Bhati Andolan ke awasan ka Prashna aur Kabeer,” organized by Hindi Deptt. Shankaracharya Sanskrit University, Kaladi on 13-14 February 2019

Rajiv Aggarwal presented a paper entitled “On the Basins of convergence of the libration point in the axisymmetric restricted five-body problem: Convex case” in the XXXth General Assembly of the International Astronomical Union, Vienna, Austria 20-31 August 2018.

Dr Rajvir Shashtri presented a paper entitled “Vedic Vangmaymein Ashram Vyavastha” in a two day national seminar under the title “Sanskrit angmaymeinshastriyeparamparaaur Lokjiwan” organised by the combined efforts of Shyama Prasad Mukherjee mahilamahavidyalaya , Delhi University and Rashtriye Sanskrit Sansthan, Delhi on 11-12 January 2019

### **Placement Details**

Percentage of students placed: 60%

Number of companies visited for campus recruitment: 27

### **Extension and outreach activities**

NSS Volunteers, on every Monday visited SDMC school, Defence Colony and SDMC school, Lajpath Nagar to impart value education to children. This project was started in the last month of December 2018 and concluded in the 1<sup>st</sup> week of March run in association with Sri Sathya Sai Seva Organization. On 10 January 2019 NSS in association with PRAVAH NGO started the Project JAGRIK. This program aimed to achieve constitutional and SDGs literacy through Fund games that lasted over 6 weeks. Through discussion and dialogues students were made aware of the importance of knowing our duties along with our rights.

### **Library Development**

Library added new facilities/features in the year 2018-2019. The Library initiated the process of digitalization of DESH Magazine and the same is now available on the College Website. Library procured new server DELL Power edge T430 for smooth functioning of Library software. In the beginning of the academic session 2018-2019, the library organized a User Orientation Programme for the first year students. The library also added 2619 new books in the collection during 2018-2019.

### **Faculty strength**

Total permanent: 116

Total Ad hoc: 88

### **Financial Allocation and Utilization**

Grants sanctioned : Rs 50.09 + ( 16.33 previous ) crore

Grant utilized: Rs 63.43 crore

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## Dr. BHIM RAO AMBEDKAR COLLEGE

### Major Activities and Achievements

With a total student strength of about 3100 students (39% girls) and 123 faculty members the college offers several Honors' Courses in addition to B.A.(Programme), B.Com and Urdu as an elective subject. The extra and co-curricular activities included program related to 'Senior Citizens', celebration of a Sikkim Week, A Blood Donation Camp, Anti-Terrorism Day, campaign about 'Equality and Social Harmony', and awareness about 'Drug Use & Misuse'. National seminars in collaboration with national and international bodies on following themes were organized : Autonomy of Education: Challenges and Solutions, Indian Social Work: Scope & Challenges, Global Business and Digital Economy, Environmental Challenges for New India, Business Strategies for Promoting Inclusive Development, Global Environmental Challenges, and Human Health and Sustainable Development. The NSS and NCC units took many initiatives. The Welfare/Fee Committee, Placement Cell, IQAC Cell.

### Publications

Arora, G.K. (2019) Higher Education in Globalizing India: Challenges Ahead. *Chapter in Sheeba Joseph and Nilofar Kadeer (ed, 2018): The Quality of Higher Education in India: Road Ahead, BSSS, Bhopal.*

Arora, G.K. (2019), The Rising India and Economic Thinking of Dr. Ambedkar, *Academia* Vol II, No. 1), ISSN 2395-0161 Delhi. P.37-48.

Bhardwaj, T. (2018) Caregiver's Difficulty Rating Scale: Development and Initial Validation of a tool to identify the unmet needs of Indian Caregivers in *Indian Journal of Palliative Care*, 24 (3): 300-307.

Dash, B.M. (2018). Social Work Education through Open and Distance Learning in India: Opportunities and Challenges, *Social Work Education*, 37: 813-820.

Dash, B.M., Botcha, R. (2018). Social Work Education through Open and Distance Learning: An Indian Perspective. *Turkish Online Journal of Distance Education*, 19:149-165.

Shahani, R. (2018) Financial Development and Economic Growth Nexus-Empirical Investigation of three South Asian Economies, *Pacific Business Review International*, 11:69-78.

Shahani, R. (2018) Linkages between Stock and Commodity Indices: An Empirical Investigation. *Effulgence*, 16: 24-26.

Singh, A.P. (2018) Case Records in Social Work. *Rapid Book Service, Lucknow*, ISBN: 978-93-82462-99-6 (2018).

### Journals

Published by the college: Journal named "Academia" is being published by the college.

Number of college teachers serving as Editor(s)/Member(s) of the Editorial Board: 2

### Research Projects

Project entitled "A multi-faceted approach to understand gender discrimination in Access to finance" was granted by ICSSR to Dr. B.M. Dash with a grant of Rs.6 lakhs.

### Seminars Organized

Seminar on "Global Business and the Digital Economy (Opportunities and Challenges)" organized by The Department of Commerce in association with Indian Commerce Association, Delhi NCR on 9 October 2018.

### **Conferences Organized**

Two day National Conference on 'Environmental Challenges for New India' collaboration with CSIR-NEERI, ESDA and NESAI on 2 and 3 November 2018.

Three day International Conference on 'Global Environment Challenges, Human Health and Sustainable Development' in collaboration with CSRD-JNU, NEERI, ESDA, UMET-USA, RGSSH, Amity University, GRC India and ECPFO Delhi on 11-13 January 2019.

### **Seminar/Conference Presentations**

Atul Pratap Singh was invited to deliver a lecture on 'Role of IEC and Community Participation in Solid Waste Management' to the Government Officials in a training programme on 'Solid Waste Management' at Regional Center for Urban and Environmental Studies (RCUES), Lucknow, Ministry of Housing and Urban Affairs on 5 June 2018.

Jaya Verma presented a paper on "Nirvaya Fund: Failing Results, Changing Goals" in the International Conference on "21st Century India: Interrogating Social, Economic, Political and Environmental Processes" organised by Satyawati College (Eve) on 24-25 April 2019.

Sangeeta Sharma Dhaor delivered a Key Note address "Transition in Teacher Education in Global Perspective: Rethinking, Redesigning & Revitalizing," organised by Army Institute of Education, NAAC Accredited grade 'A' institution on 25 February 2018.

Sangeeta Sharma Dhaor, Department of Social Work presented a paper on "Anti-Oppressive Social Work Practice with HIV Positive Persons," in the national conference on 'Indigenous Social Work: Challenges, Responses and Way Forward' organised by Social work Department, Jamia Milia Islamia on 16-17 November 2018.

Tulika Sanadhya, Department of Geography presented research paper on "Health Risks and Vulnerability of the Community near Bhalaswa Landfill Site in Delhi" in the International Conference on Global Environmental Challenges Human Health and Sustainable Development held from 11 to 13 January 2019.

Ningombam Victoria Chanu presented a paper on 'Understanding the Dynamics of Society through Folk Songs: The Case of Minyo and Khunung Eshei' during the International Seminar on Strengthening Special Strategic Partnership between India and South Korea: Prospects and Challenges held on 26 and 27 October 2018.

### **Placement Details**

Percentage of students placed: 61/61%

Number of companies visited for campus recruitment: 14

### **Extension and Outreach Activities**

Half day workshop on Road Safety and Traffic Awareness was organized by NSS unit in collaboration with Institute of Driving and Traffic Research, IDTR, Wazirabad Road, Delhi-94.

NSS volunteer has collected relief materials for Kerala affected people and hand over relief materials to Kerala House on 28 August 2018. Around thirty NSS volunteer participated and celebrated Diwali with Slum peoples at old iron bridge in East Delhi on 6 November 2018. The Red Ribbon Club organized a Blood Donation Camp on 20 September 2018 in association with "Rotary Club". The Red Ribbon Club organized a Workshop on How to be Safe while using internet social media on 2 February 2019 in association with Centre for Social Research.

### **Library Development**

Our Library with floor wise signages is well equipped (books, approx. 39,053) with extended facilities like OPAC and N-LIST of INFLIBNET. This year the college has added 1889 new books and subscribed to

around 31 periodicals (17 English and 14 Hindi) in addition of 23 newspapers on the recommendations of TICs / Library Committee. Meritorious and economically weaker students (about 45) are provided books under SAF scheme. Special facilities like separate AC Cabin with computer facility and online membership of *Sugama Pustakalaya* are arranged by the library for our *Divyangjan* students.

### **Faculty Strength**

Total sanctioned faculty: 123

### **Financial Allocation and Utilization**

Grants sanctioned: Rs. 373829684/-

Grant utilized: Rs. 321663771/-

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## **DURGABAI DESHMUKH COLLEGE OF SPECIAL EDUCATION**

### **(VISUAL IMPAIRMENT)**

### **Major Activities and Achievements**

The college was established in 2006 for offering bachelors degree programme in special education for the visually impaired under Department of Education, University of Delhi and is recognized by Rehabilitation Council of India. The college is established and run by the Blind Relief Association, Delhi a premier non-government organization. The college gets partial financial support from the National Institute for Empowerment of the Persons with Visual Impairment (Divyangjan) an apex body under the Ministry of Social Justice and Empowerment. The college has an intake capacity of 28 students per academic session.

### **Honours/Distinctions**

Dr. Swati Sanyal was a member for committee for amendment of 'Act of Rehabilitation Council of India' and a member of revision committee for Inspection report format, Rehabilitation council of India'.

Dr. Swati Sanyal was a member for Doctoral Committee of SOSS, IGNOU.

Dr. Sudeep Kumar Dubey invited as a chief guest and chaired a technical session at a National Conference in IEP for deaf and blind at TEKNIA, Rohini, New Delhi.

### **Publications**

Dubey, S. K. (2018) "Visual Impairment: a book for parents and caregivers" by *Renova International Publications, New Delhi*.

### **Research Projects**

Narendra Kumar Jha: Contributed in the project entitled 'Materials Development for Spatial Concepts among Visually Impaired Learners' under SCERT during the period 2018-19.

### **Workshops Organized**

College hosted a digital literacy workshop on using mobile app for persons with visual impairment conducted by the National Association for the Blind on 6 September 2018 in BRA.

One-day in-service training cum workshop was organized for special educators on RPwD Act, 2016. The workshop was sponsored by National Institute for the Empowerment of Persons with Disabilities (Divyangjan) and organized on 9 February 2019.

### **Seminar/Conference Presentations**

S. K. Dubey presented a paper entitled, “Study of Braille writing ability by students with mild intellectual disability with visual impairment” during the National Conference organized by National Institute for the Empowerment of Persons with Intellectual Disabilities (NIEPID), Regional Center, Kolkata held on 19 and 20 November 2018.

S. K. Dubey delivered a lecture entitled, “Issues and challenges in implementation of RPwD Act 2016” during a workshop organized by D.D. College of Blind Relief Association and sponsored by NIEPVD on 9 February 2019.

S. K. Dubey delivered a lecture entitled, “RPwD 2016 Act and its implementation” during a workshop held at Sarvodaya Kanya Vidyalaya, Vikaspuri for the teachers of Directorate of Higher Education, GNCT Delhi, on 20 February 2019.

S. K. Dubey delivered a lecture entitled, “Curricular Adaptation for Visually Impaired” during a workshop held at SCERT Gurugram on 6 March 2019 for Haryana State teachers.

### **Placement Details**

Number and percentage of students placed: 50%

### **Extension and Outreach Activities**

Students of B. Ed Spl. Edn. carried out an Awareness Workshop entitled “Inclusion of persons with disabilities” in various schools of Delhi.

### **Library Development**

Total Number of Books (Print + Braille): 4457

Print Journals on Special Education as well as Education: 20

Total Numbers of Books added during 2018-2019: 75

### **Faculty Strength**

Total Permanent: 4

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## **DYAL SINGH COLLEGE**

### **Major Activities and Achievements**

National Institutional Ranking Framework (NIRF) adopted by MHRD ranked Dyal Singh College as 20<sup>th</sup> in overall ranking in the category of colleges (in the year 2019). Conferred with a ‘Certificate of Appreciation’ by Green Globecare for the tireless efforts and valuable role in building the foundation to protect trees and mother Earth. ‘Spiritual and Value Education Award’ was conferred by Confederation of Indian Universities (CIU). IQAC of the college organized FDP on Environment Sustainability and Higher Education. The World Environment Day was celebrated on 5 June 2019 as a special plantation drive. Computational chemistry workshop was organized for faculty and students. A session on future career prospects was delivered by Prof. Ujjwal K. Chowdhary. Students registered for Swach Bharat Summer Internship (SBSI) programme, to develop their skill and orientation for sanitation related work, amplify mass awareness on cleanliness and cement people’s movement (Jan Andolan) aspect of Swach Bharat Mission.

### **Honours/Distinctions**

Ms. Sadaf Iqra Khan received 11<sup>th</sup> National Women’s Excellence Awards organized by ‘Yoga Confederation India’ in association with ‘Indo-European Chamber of Small and Medium Enterprises’.

Dr. P.V. Arya awarded with third position for oral presentation in the National Conference sponsored by CSTT, HRD and organized at Gargi College, University of Delhi.

Dr. Shweta Rani was invited as a 'Jury' in the National Seminar on 'Climate Change Conclave'.

### Students with Distinction

Dipanwita Bose of B.Sc. (Hons) Mathematics obtained perfect 10.00 score.

Students of B.A. (Hons) Geography semester IV awarded as best presenters at the "Geographers' Youth Conclave" organized by Shaheed Bhagat Singh College, University of Delhi, Delhi.

### Publications

Arya, P.V., Singh, H.S. (2018). Free Amino Acid Studies in *Ascaridia galli* (Schrank, 1788) Freeborn. *J. Cont. Res. & Communi.* (1)2: 41-43.

Cacciapaglia, G., Deandrea, A., Gaur, N., Harada, D., Okada, Y., Panizzi, L. (2018). The LHC potential of vector-like quark doublets. *Theoretical Physics*, 055: 1-27.

Jain, P. P., Singh, A. P., Singh, M., Stepanov, V. D. (2018). Sawyer's duality principle for grand Lebesgue spaces. *Mathematische Nachrichten*. 292(4): 841-849.

Kumar, A., Ram, I.S., Kumar, S., Ram, J., Upadhyay, A. N., Singh, K. (2018). Glass-forming ability and thermal stability of  $\text{Se}_{100-x}(\text{Ge}_2\text{Sb}_2\text{Te}_5)_x$  glassy alloys. *Journal of Thermal Analysis and Calorimetry*. 134(2): 923-931.

Manav, N., Dwivedi, V., Bhagi, A.K. (2018). Degradation of DDT, a Pesticide by Mixed Metal Oxides Nanoparticles. In: Parmar V., Malhotra P., Mathur D. (eds) *Green Chemistry in Environmental Sustainability and Chemical Education*. Springer, Singapore.

Nain, A. K., Droliya, P., Gupta, J. (2018). Deviations in viscosity and thermodynamics of viscous flow for binary mixtures of methyl acrylate with 1-alkanols at different temperatures. *Indian Journal of Chemistry - Section A (IJC-A)*; 57A: 761-769.

Pandey, P.K. (2018). A numerical technique for the solution of general eighth order boundary value problems: A finite difference method. *Ural Mathematics Journal*. 4(1): 56-62.

Pandey, P.K. (2018). A new computational Algorithm for the Solution of Second Order Initial Value Problems in Ordinary Differential Equations. *Applied Mathematics and Nonlinear Sciences*, 3(1): 167-174.

Pandey, P.K. (2018). An efficient numerical method for the solution of third order boundary problem in ordinary differential equations, *Int. J. Computing Science and Mathematics*, 9(2): 171-180.

Saroha, M., Meena, K., Khurana, J.M. (2018).  $\text{PPh}_3$  Mediated Stereoselective Synthesis of 4-Fumarate Substituted 3-AcylCoumarins: A Cascade Reaction of 3-Acyl Coumarin with Alkyne Derivatives. *Chemistry Select*, 3(21): 5905-5909.

### Journals

Number of College Teachers serving as Editor(s)/Member(s) of Editorial Board – More than 12

### Research Projects

Department of Science and Technology project of Dr. Arun Pal Singh, Department of Mathematics. Amount Rs. 41 lakhs.

Indo-French collaborative project of Dr. Naveen Gaur, Department of Physics. Amount Rs. 1,02,000 Euro.

Indian Council of Social Science Research project of Dr. Ravinder Singh, Department of Punjabi. Amount Rs. 40 lakhs.

Department of Biotechnology pilot project of Dr. Aruna Chhikara, Department of Chemistry. Amount Rs. 25 lakhs.

### **Seminars Organized**

Seminar entitled “Savan Kavi Darbar” wherein twelve poets participated from different parts of India during the Dr. Vanjara Bedi Memorial Lecture.

Seminar entitled “Biodiversity for Environmental Sustainability” delivered by Dr. Faiyaz Ahmad Khudsar, Scientist, Yamuna Biodiversity Park, New Delhi.

Annual seminar on the theme, “Partition Literatures” was delivered by Urvashi Butalia.

Seminar, “Sanskrit Sahitya Mein Samsamayikta” delivered by Dr. Ranjan Tripathi, Associate professor, Department of Sanskrit, University of Delhi.

Tech Talk delivered by Mr. Akshat Agarwal from Adobe Systems.

### **Conferences Organized**

Department of Commerce organized a National Conference entitled, “Transformations in Business, Management and Entrepreneurship: Financial and workplace metamorphosis in India”. Prof. R.K. Singh, Head Department of Commerce, University of Delhi, graced the occasion as a chief guest.

Department of Botany organized a workshop entitled, “Recent Trends in Plant Systematics and Future Prospects”, for the entire faculty members.

IQAC of the college organized a Faculty Development Program entitled, “Environmental Sustainability and Higher Education”, for teaching faculty.

IQAC of the college organized a workshop entitled, “Computational Chemistry”, for students and teaching faculty.

Department of Commerce organized a Faculty Development Program entitled, “Research Paper Writing”, “MS-Excel usage” and “Team Building and Interpersonal Relations”.

### **Seminar/Conference Presentations**

Seema Bose presented a paper entitled, “Humanism Revisited” at the 24<sup>th</sup> World Congress of Philosophy, Beijing, China and also during an International Conference entitled, “Dealing with otherness in Hindu Behavior Daffern” organized by Council of Research, Washington DC, USA.

Rajesh Kumar Abhay presented a paper entitled, “Evaluating the status of land management practices adopted by farmers in northern highlands of Odhisha, India” at the International Geographical Union Thematic Conference on Practical Geography and XXI Centaury Challenges organized by Institute of Geography, Russian Academy of Sciences Moscow and on “Traditional methods of water management and their significance for future sustainability of India” at Jawaharlal Nehru University, New Delhi.

Rattandeep Kaur presented a self written story during the Women’s Day special program organized by the Punjabi Sahit Sabhyachar Sangathan.

Neetu Bhattacharya delivered an invited talk during a National Conference organized by Department of Chemistry, University of Delhi, Delhi.

### **Placement Details**

Number and percentage of students placed : 148 (Number) 8.37 (% students of total passed)

Number of Companies visited for campus recruitment : 10



### **Extension and Outreach Activities**

More than 5 camps have been organized in the surrounding areas covering more than 400 people who enrolled in the same. Around 100 students participated in these camps making them a success by devoting around 5 hours per camp.

### **Library Development**

Added 1184 books during the last year and has around a lakh of total collection. The college library subscribes 59 journal/magazines and 19 newspapers and is a member of NLSIT program to access e-resources. It also provides IT based services to visually impaired student/Faculty Members.

### **Faculty Strength**

Total Permanent – 153

Total Ad-hoc – 102

### **Financial Allocation and Utilization**

Grant sanction Rs. 52,61,54,000/-

Grant utilized Rs. 64,52,97,056/-

### **Other significant information**

National Skill Resources Development Award was conferred by National Community College for Skill Development (NCCSD), the Women's Agency for generating Employment (WAGE), Confederation of Indian Universities (CIU) and National Institute of Cleanliness Education and Research (NICER) for outstanding contribution.

Spiritual And Value Education Award was conferred by Confederation of Indian Universities (CIU). International Association Educators for world peace conferred "Best Managed Green Campus Award". Received "Certificate of Recycling" for disposal of 1663 kg of waste paper. Mr. Sunil Kumar and Dr. Naveen Gaur got elected to University Academic Council.

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## **DYAL SINGH EVENING COLLEGE**

### **Major Activities and Achievements**

The construction of four floors of the new academic block equipped with CCTV cameras was the main achievement for this year. More than ninety faculty members upgraded themselves with publications in the form of books and articles. Art and culture association (F.I.N.A.), Placement Cell of the college, COMHUB of Department of Commerce, Literary and Meditation society of Department of English, Environmental Society of Department of EVS, Rajniti Vigyan Parishad of Department of Political Science, Virsa of Department of Punjabi, NSS Unit, Dhara Mitra and Students' Union as a whole have worked tirelessly and have helped students develop themselves through a pro-active learning environment. Students have received several accolades in competitions held at inter-college, state and national levels.

### **Publications**

Baruah, M. (2018) Folklore a Literary Aesthetics of Myth or a Conflict of Reality: A Study of Assamese Folk *Literature' Literary Aesthetics and Conflict Studies*, Ramayan Printer, ISBN 978-93-5281-230-1.

Prakash, C. (2018) Environmental Protection and Regulations in India: Role of the Central Pollution Control Board. *Indian Journal of Public Administration*, Sage Publications, <https://doi.org/10.1177/0019556118785427>.

Gupta, P. (2019) A Study of Green HRM Strategies and Practices used by E-retail companies in India. *International Research Journal of Management Science and Technology*, 10(2), 15-29.

Malhotra, S., Mishra, R., Karmakar, S., Rawat, D., Sharma, S., Singh, S., Kumar, P., Raiping, S. Mishra, V. (2018) Environmental factors shaping plant-microbe associations: Their significance to improve plant health and vegetation restoration in degraded lands. In Ansari M.W., Kumar S.,

Kaula B.C. & Wattal R.K. (Eds.), *Introduction to challenges and strategies to improve crop productivity in changing environment* (pp. 1-16). New Delhi: Enriched Publications Pvt. Ltd.

Puri, S. (2019) Same Stories: Alternative Endings: A Case Study of Canadian Feminist Fantastical Voices in *Rise of the New Writing: Folk, Culture and Cinema*, Prestige Books International, pp.38-60

Sharma, P.K. (2018) Sino-US Trade War: A potential threat to World peace and prosperity: Why should India worry? in 'Sino-US Trade War: A New Challenge to Globalization', Vista International Publishing House, Delhi: ISBN: 978-93-83905-19-5.

Singh, A. (2018) Women Being Branded as Witches -Analysis of case Study and Literature. Quote-Unquote. *International journal of Language, Humanities*. Bahri Publication.

Singh, S.K. (2018) Sustainable Responsible Investment - Emerging trend in Portfolio Management. *International Journal of Advance & Innovative Research*, 5(4) (xviii).

Tyagi, A. (2019) Reconstructing Devotion through Narada Bhakti Sutra. D K Print World, New Delhi.

### **Journals**

College Teachers serving as Editors/Members of Editorial Board: 03

### **Research Projects**

Indian Council of Social Science Research Project (2017-19) entitled, "Policy and Politics of Air Pollution. Principal Investigator: Dr. Prakash Chand, Assistant Professor, Department of Political Science. Rs. 8 lakhs.

### **Seminars Organized**

Mr. Sohail, I.P.S. Officer delivered a talk on 'How to Prepare for Civil Services' in collaboration with GS Mentors on 21 August 2018.

Mr. Nikhil Chainani, CEO of Perspectico seminar entitled "Perspectico: Placement Capsule", held on 26 September 2018.

Mr. Shivam Ahuja, CEO and Founder of Skill Circle presented "Digital Marketing" on 11 October 2018.

Professor Manit Mishra, Associate Professor at IMI delivered his lecture "Industry 4.0: Opportunities and Challenges" on 14 January 2019.

Mr. Srajan Rastogi, Business Head (KC Region – South Delhi) seminar on "Choosing between the right exam- CAT vs GMAT vs GRE and Decoding CAT" on 25 January 2019.

### **Seminar/Conference Presentations**

Amit Kumar presented a paper entitled, "Differentiating the consumer - centric marketing –mix for core and compensatory construct of food items at subsistence market-place" during the first PAN-IIT International management conference organized by IIT Roorkee during 30 November to 2 December 2018.

Anjali Kaistha presented a paper entitled, "Gandhi aur manas ke Ram ka vagyanik drishtikon" in an International Conference held at Pathay Sahitya Kala Academy, Delhi; Puna College Hindi Vibhag; and Hindi Sahitya Academy, Gandhinagar, Gujarat.

Lehri Ram Meena presented a paper entitled, “Lok avem janjaatiya saahitya aur sanskriti” in an International Conference held at Sanskriti Vibhaag aur Sangeet Natak Academy, Pratikalp Saanskritik Sanstha, Ujjain.

Mridusmita Baruah presented a paper entitled, “Postcolonial women voices of India’s North East’ in an International Conference held at NDMC, New Delhi on “Bhartiya Women Past Present and Future” during 23 and 24 February 2019.

Naseem Akhtar presented a paper entitled, “A critical analysis of mudra: A game changer or a failure?” at the 3<sup>rd</sup> International Conference “Rethinking Innovation Role of Management and Technology in Modern Business Practices”, organized by Amity College of Commerce and Finance, AUUP Noida, during 14 to 19 March 2019.

Priya Sharma presented a paper entitled, “Nankvani main dharam aur aachran ka samajik Swarup” in a National Conference organized by JNU and Indraprastha Kendra on 30 March 2019 held at JNU Delhi.

Prithvi Raj Thapar presented a paper entitled, “Punjabi Poetry: Present & Future” during the One Day International Seminar at Gandhi National College, Ambala, Haryana on 16 March 2019.

Sumita Puri presented a paper entitled, “The polemics of dosto colonial Diasporic schizophrenia in Derek Walcott’s Poetry” at an International Conference on ‘Diaspora, Multiculturalism and Quest for Identity’ organized by Sophia Girls’ College, Ajmer held from 17 to 19 February 2018.

Vimalnayan Pandey presented a paper entitled “Geopolitics of Indian ocean: India’s strategy for 21<sup>st</sup> century” in a National Seminar on “India’s Foreign Policy: Continuity and Change under PM Modi” organized by School of Social Sciences, Guru Nanak Dev University, Amritsar and sponsored by ICWA, New Delhi on 29 and 30 March 2019.

#### **Placement Details**

Percentage of students placed: 65% of the participants

Number of companies visited for Campus Recruitment: 12

#### **Extension and Outreach Activities:**

The college has been running a Centre for School of Open Learning and organizing classes for the B.Com. (Hons) students from the academic year 2017-18 onwards.

#### **Library Development**

A total of 28 periodicals and journals are available in the library. 14 newspapers are also available for the staff. A total of 1407 books were added to the library’s collection in the session 2018-19. The library staff is regularly updating their technical skills so as to take the library towards automation in the new digital era. The library also provides the facility of National Library & Information Services, Infrastructure for Scholarly content (the N-list website).

#### **Faculty Strength**

Total faculty strength: 92

#### **Financial Allocation and Utilization**

Grants sanctioned: Rs. 2075.45 Lakhs

Grants utilized: Rs. 1872.57 Lakhs

#### **Other Significant Information**

Dyal Singh Evening College is working as a full-fledged day college as per the Executive Council

Resolution No.8-35 of University of Delhi. The college provides education in four different Indian languages in addition to Hindi i.e. Punjabi, Sanskrit, Tamil, and Urdu. N.S.S. Unit of the college commemorated the 100<sup>th</sup> Anniversary of Jallianwala Bagh Massacre by organizing a special lecture of Sh. Yadwinder Singh Sandhu, the grandson of Shaheed Bhagat Singh on 16 April 2019. COMHUB, the commerce society of the college organized eight educational, career guidance and training seminars, an array of six inter-college competitive events and an Annual Commerce Fest 'Comfiesta'. Litrospect, the annual Literary extravaganza of the Department of English hosted an ensemble of litterateurs and logophiles by organizing various events. EVS society of Department of Environmental Science organized a lecture and Plantation Drive wherein Sh. Chandi Prasad Bhatt, a recipient of 'Magsaysay Award' shared experiences of the Chipko Movement with the students.

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## GARGI COLLEGE

### Major Activities and Achievements

National Institutional Ranking Framework (NIRF) ranked Gargi College at the 12<sup>th</sup> position (under the college category). Five faculty members, Dr. Krishna Meena from department of Hindi, Dr. Mudita Mohile from department of English, Dr. Bharti Sharma from department of Mathematics, Dr. Salma Khan from department of Chemistry and Dr. Romita Popli from department of Commerce were awarded Ph. D. degree this academic year.

### Honours/ Distinctions

Dr Aparajita Mohanty received Best Performing Teacher Award instituted by Directorate of Higher Education, Government of NCT of Delhi.

Dr. Anjana Neira Dev was felicitated by *Citizen's Rights Trust* on 7 March 2019 during the occasion of International Women's Day at a function organized on the theme of "Women to Lead the Nation".

Dr. Mamtesh Singh received NES A Young Scientist Award-2018 by National Environmental Science Academy (NES A), Delhi.

Dr. Vandana Luthra received a Certificate of Appreciation from Trans-disciplinary Research Oriented Pedagogy for improving Climate Change Studies and Understanding (TROP ICSU) project, a global climate change project supported by International Science Council (ISC) for a lesson plan titled "Permafrost and Climate Change" published on the TROP ICSU website.

Dr. Anjana Rustagi received Best poster award at National conference on 'Recent Development in Plant stress biology: translating laboratory research for human welfare (RDPSB-2018)' organized by Department of Botany, Central University of Jammu, Jammu and Kashmir during 7 and 8 December 2018.

Dr. Neha Sharma received a first prize in paper presentation in a seminar entitled "Greening an undergraduate chemistry lab" held on 8 and 9 August 2018 at Sri Venkateswara College.

Dr. Tripti Kumari received a first prize in a Crystal Growing Competition held on 26 February 2019 at St. Stephen's College.

### Students with Distinction (Maximum 5)

Ten students were awarded the Science Meritorious Award by University of Delhi.

Ms. Anushree Murali student of B.A. (Hons) History II year was awarded best presentation award at an International Conference in Singapore.

## Publications

Bhatia, S. (2018). The impact of coping strategies of cancer caregivers on psychological outcomes: an integrative review. *Psychological Research and Behaviour Management*, 11, 207-215.

Chauhan, H. (2018). Faster Ion Switching NiCo<sub>2</sub>O<sub>4</sub> Nanoparticle Electrode-Based Supercapacitor Device with High Performances and Long Cycling. *ACS Applied Energy Material*, 10(38), 32404-32412.

Chatterjee, D., Muneer, M., Praneetha, M., Kaur, P., Singh, P., Kalra, K., Yashpal, M. (2018). Biogenic synthesis of gold nanoparticles by fruit extract of Punica granatum and their antimicrobial properties. *Green Technology for Environmental Sustainability*, 18/PP/09, 56 pp.

Kumar, P., Sharma, B. (2018). On the multi-objective control problem. *Journal of Applied Analysis*, 24(2), 223–231.

Kumar, P., Sharma, B. (2019). Second order duality for variational problem via efficiency of higher order. *International Journal of Mathematics in Operational Research*, 14(1).

Mani, I., Vasdev, K. (2018). Current Developments and Potential Applications of Biosensor Technology. *Journal of Biosensors & Bioelectronics*, 9(2): 1-3.

Pandey, P., Chugh, S., Rao, U. (2018). Seed rhizome induction during in vitro organogenesis of Bambusa bambos var. gigantea Bennet and Gaur. *Phytomorphology*, 68 (1&2): 1-6.

Saini, G., Kajal, Ganeswari, D. (2019). Preparation of Nano silver coated Cotton Fabric and its bactericidal evaluation. *Journal of Materials Nanoscience*, 6(1), 7-11.

Singh, A., Pandey, A., Luthra, V. (2018). Modulating structural, electrical and thermos-luminescence properties of  $\gamma$ - ray irradiated nanocrystalline Zn<sub>0.99</sub>M<sub>0.01</sub>O (M = Al/Gd). *Radiation Physics and Chemistry*, 152, 69–74. Doi.org/ 10. 1016/ j.radphyschem.2018.06.050

Thukral, S., Arora, A., Bhandari, V. (2018). When Economies Jitters, Bitcoin Flutters: Evidence from the Impact of Macroeconomic Factors on Bitcoin Returns. *Business Analyst*, 39(1), 3-25.

## JOURNALS

Number of college teachers serving as Editor(s)/ Member(s) of Editorial Board: Three

### Seminars Organized (Maximum 5)

Department of Commerce organised an International Seminar entitled “Unethical Practices: Sputtering India’s Economy” on 23 October 2018.

Department of Economics organised a Panel Discussion on “Rupee Volatility” on 14 September 2018.

Department of Zoology in collaboration with Commission for Scientific and Technical Terminology (CSTT), MHRD, Govt. of India organised a seminar entitled “Use of scientific & technical terminologies in sustainable environment development, its challenges, computational analysis and opportunities” from 14 to 16 March 2019.

Seminars entitled “Ethics in Public Life” and “Service conditions of non-teaching staff at Delhi University” were organized for administrative staff on 26 December 2018 by IQAC of the college.

Marketing Society organized a seminar entitled “Marketing of Services: The Inescapable Essential” on 21 January 2019.

### Conferences/ workshops organized

A multidisciplinary conference entitled, “Emerging Trends in Tertiary Education: Assessing challenges and possibilities” was organized on 29 and 30 March 2019.

A lecture cum demonstration workshop entitled, “Adulteration in Food and Preparation of Herbal Cosmetics” was organized under the aegis of Star College Scheme and in collaboration with Eco Club on 19 January 2019.

A summer workshop entitled, “Chemistry in day to day life” was organized by the chemistry department during 17 and 18 July, 2018.

A summer workshop was organized by the department of physics during the month of July 2018. The workshop provided interdisciplinary flavors of the research on topics such as X-ray diffraction, Nanotechnology, Arduino, and interfacing device.

A conference entitled ‘India International Society for Eighteenth-Century Studies (IISECS)’ was organized in collaboration with Zakir Husain Centre for Educational Studies (ZHCES), JNU, on aspects of knowledge’s, epistemes and Pedagogies in the long 18<sup>th</sup> century during 21 and 22 February 2019.

### **Seminar/Conference Presentations**

Aneeta Rajendran presented a paper entitled, “Mythologies: Revisionism and an Intersectional Feminist Aesthetics in the contemporary graphic novel in India” at the 10<sup>th</sup> European Feminist Research Conference held at Georg-August-Universität Göttingen, Goettingen, Germany, during 12 to 15 September 2018.

Ruchika Sharma presented a paper titled, “Engendering Śrngara, Procuring Love: Sakhi, Duti, and Go-Between in Riti Poetry” in the 2<sup>nd</sup> International Conference - Servants' Pasts held during 11 to 13 April 2018 at Humboldt University, Berlin, Germany.

Kavita Vasdev presented a paper entitled, “White-rot fungi and their enzymes in development of industrial effluent treatment systems” at a conference organized by the IRED Paris France held on 14 June 2018.

Anjali Siwal presented a research paper entitled, “Ethics and Diversity in the Workplace” in an International Conference of ‘Sustainable Development and the World Economy’ held at India International Centre on 4 and 5 February 2019 and organized by department of commerce of Janki Devi Memorial College, University of Delhi.

Hira Joshi presented a paper during the 5<sup>th</sup> International Conference on ‘Nanoscience and Nano technology’ held on 13 and 14 December, 2018 at Colombo, Sri Lanka.

Indra Mani presented a research paper entitled, “Effect of Rapamycin on the Expression of T Regulatory Cells, Foxp3, and Toll-Like Receptors in the Kidneys of Npr1 Gene-Knockout Mice” during the High Blood Pressure Research (HBPR) Meeting held on 6 to 9 September 2018, at Chicago, Illinois, USA.

Aparna Joshi presented a paper titled, “Embedded values and representation of farmers and farming in class 8 NCERT textbook” during the 9<sup>th</sup> International Conference, ‘Modernity, Transformative Social Identities and Education in Comparative Contexts’ held on 14 to 16 December 2018 organised by Maharaja Sayajirao University, Vadodara.

Geeta Saini presented a paper entitled, “Nano Silver coated Anti-microbial cotton fabric” in an International Conference on ‘Environmental and Ecological Sustainability: Engaging the Stakeholders’ held at IGNOU, New Delhi on 4 and 5 October 2018.

Jyotika Bahl presented a paper during the ‘National Conference on Environmental Challenges for New-India’ organized by Environment and Social Development Association of Delhi in collaboration with Bhim Rao Ambedkar College, University of Delhi in June 2018.

M. Divya Gnaneswari presented a paper entitled “An insight on Inducible humoral protein from insects: An attractive alternative to bacterial antibiotics” during the 1<sup>st</sup> International Conference on Integrative chemistry, Biology, and translational Medicine on 25 and 26 February 2019.

## **Placement Details**

Total number of students placed: 77

Number of companies visited for campus recruitment: 61

## **Extension and Outreach Activities:**

National Service Society (NSS) organized a Blood Donation Camp in 2018 with the collective effort of over 700 active volunteers. Happiness Day was celebrated with differently abled students from two special schools namely, 'Tamanna' and 'Muskaan'. Several cleanliness drives were also organized by NSS volunteers throughout the year.

Newspaper collection and clothes collection drives, as a part of 'Daan Utsav', were routinely organized to help NGOs such as Family of Disabled, Goonj etc. To celebrate and promote electoral participation, NSS organized a pledge taking ceremony on 25 January 2019 on the occasion of National Voter's Day. NSS volunteers rendered services in blind schools, cheshire home, Udaan, Chetna, Youth for Service, Adhaarshila, Jamghat, Cansupport and many others. A series of workshops were organized on topics such as managing negativity and stress, personality development, leadership, key to relationships, ceiling on desires etc. for developing holistic life skills of students.

## **Library Development**

WEBOPAC and facility of UGC INFLIBNET and access to DU Library Catalogue continued during the year. Gargi Library website <http://www.gargicolglibrary.webs.com> and online use of e-resources increased during the year. 513 books were added till March 31, 2019 making a total of 75045 books in all. At present library has an asset of 389 CDs and subscribed to 42 periodicals (5 International, 11 National, 26 Magazines) and 10 newspapers. Electronic resource management package for managing and utilizing e-resources was made available. Library subscribes to a large number of electronics resources through UGC-Infonet which includes e-resources (6,000+ e-journals and 31,35,000+ e-books ) and University of Delhi connectivity which includes Delhi University Library System.

## **Faculty Strength**

Total Permanent: 144

Total Ad-Hoc: 72

## **Financial Allocation and Utilization**

Grant sanctioned:

UGC: Rs. 3942.71 Lacs

Delhi Government: Rs. 43 Lacs

Internal receipts: Rs. 15.36

Grant utilized: Rs. 5564.73 Lacs

## **Other Significant Information**

Ms. Pinky Balhara, student of B.A. Programme III year was honored with Silver Medal for the game of Kurash in the 18<sup>th</sup> Asian Games in Jakarta, Indonesia. She also won a gold medal at the Junior Asian Judo Championship held at Macau in July 2018.

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## HANSRAJ COLLEGE

### Major Activities and Achievements:

National Institutional Ranking Framework (NIRF) ranked Hansraj College at the 9<sup>th</sup> position (under the college category). This score is reflective of and a manifestation of the conscious and consistent efforts that have been made by the staff and students and constantly strive to achieve all round excellence. IQAC of the college took concrete steps towards a qualitative improvement in the academic and administrative functioning. A systematic feedback system from alumni is in place and college is trying to attract corporate entities for recruitments. Academic audit is genuinely carried out each year. The objective of this audit is to define faculty efforts that are required to improve the quality of teaching and learning. Mentorship program seeks to cater to students from diverse cultural and economic backgrounds.

### Honours/Distinctions

Dr. Jyoti Bhola was awarded “Best Researcher Award-2018” on 27 October 2018 by Grace India Educational Charitable Trust.

Dr. Brijesh Rathi received prestigious “Excellence Awards for in service teachers” by University of Delhi. This award is given to highly deserving individuals for their contribution to academic activities.

Dr. Brijesh Rathi was also conferred with the “Best Young Teacher” award by Grace India Educational Charitable Trust function on the occasion of 87<sup>th</sup> Birth Anniversary of Bharat Ratna Dr. APJ Abdul Kalam.

### Students with Distinctions

Ten students received Gold Medal in academics by University of Delhi.

Students from Botany department won accolades as first position in inter-college quiz competition organized by Daulat Ram College, and other ones by Acharya Narendra Dev College and Kirorimal College.

Students won inter-college championship in sports such as Air Pistol (M), Air Rifle (M), Squash (M), Archery (M) Compound, Archery (M) Indian Round, Badminton (M), and Air Pistol (W).

### Publications Total Number

Gera, J., Kaur, H. (2018). A novel framework to improve the performance of crowdfunding platforms. *Express Elsevier Publications*. 4(2): 55-62.

Jahan, F., Bali. (2018). Haematological and Biochemical Anomalies in *Heteropneustes fissilis* (Bloch) induced by Stress due to Nickel Chloride. *Asian Journal of Science and Technology*, 9(5):8075-8078.

Mittal, A., Dhillon, A. (2019). US-China trade war, impact and consequences. *International Research Journal of Humanities, Engineering and Pharmaceutical sciences*. 1(17): 21-28.

Poonam., Gupta, Y., Singh, S., Wu, L., Rawat, M., Rathi, B. (2018). Multistage inhibitors of malaria parasite, emerging hope for chemoprotection and malaria eradication. *Med. Res. Rev.*, 38, 1511-1535.

Pandey, K., Singh, S., Bhatta, P., Medha, Sharma, M., Chaudhry, A., Sharma, S. (2019). DosR proteins of *Mycobacterium tuberculosis* upregulate effector T cells and downregulate regulatory T cells in TB patients and their healthy contacts. *Microbial Pathogenesis*. 126:399-406.

Sharma, S. (2018). Testing the performance of Black and Scholes Pricing model in the Indian options market. *MUDRA Journal of Finance and Accounting*. 5:18-34.

Sharma, B. B. (2018). Philosophy in Schools. *PARIPREKSYA- A Research Journal of New thoughts*. 30: 11-17.

Verma, M., Tanwar, A., Sreenivas, K. (2018). Influence of lone pair on structural and electrical properties of Sb substituted Bismuth layered SBN ceramics. *Materials chemistry and Physics*, 209:159-164.



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.

### **Research Projects**

Indo-Hungarian Bilateral Research Grant (DST project) (2017-20) project entitled “Thio-click approach for the synthesis of stable glycomimetic and chiral oxathiacycrown ethers”.

DRDO project (2017-20) project entitled “Design and Catalytic Large-Scale Synthesis of New Functionalized Perfluorinated Ketones/Ethers as Potential Fire Extinguishants”. Rs. 48.2 lakhs.

UGC funded project (2016-18) entitled “Structure diversity and Stability of G-rich DNA sequences”. Rs.6.0 lakhs.

DST-SERB funded project (2016-19) entitled “A new class of Anti-malarials: Constituting new avenues for anti-malarial therapy”. Rs. 32.89 lakhs.

UGC funded project (2015-18) titled “Evaluation and analysis of four medicinal plants for their pollution load in wild, cultivated and controlled conditions and response of their bioactive constituents in terms of yield and quality”. Rs. 9.8 lakhs.

### **Patents Filed/Granted**

Chemistry department has filed a patent "Hydroxyethylamine-based piperazine compounds, and methods of producing and using the same for treating disease" (US provisional Patent App. 62/804,927, February 2019).

### **Seminar Organized**

Seminar entitled, “Real-time detection of amyloid-fibrils using combined Raman and FTIR spectroscopies” held on 5 November 2018. Dr. Gajendra Pratap Singh, Senior Research Scientist, Singapore-MIT Alliance for Research and Technology, Singapore was the key speaker.

Seminar entitled, “Theoretical and practical aspects of teaching mathematics” held on 23 July 2018. Prof I. K. Rana from IIT-Bombay was the key speaker.

Seminar entitled, “Aatmsakshakar ke Sopan :Yogdarshan ke Sandarbh Mein” was organized on 6 February 2019. Dr. Omnath Bimli, Associate Professor, Department of Sanskrit, University of Delhi and Prof Bhuvnesh Goswami, Clemson University, America were the main speakers.

Seminar entitled, “Lewis Carroll’s Jabberwocky and Sanskrit Literary theory” held on 5 March 2019. Prof. Ashok Aklujkar, Department of Asian Studies, University of British Columbia was the key speaker.

### **Conferences organized**

An “Indo-US colloquium on recent developments in Interdisciplinary Sciences” was organized on 2 July 2018.

First international conference on “Integrative Chemistry, Biology and Translational Medicine (ICBTM 2019)” was organized in association with Loyola University, Chicago Stritch School of Medicine, USA on 25 and 26 February 2019.

### **National/International MoUs Signed**

MOU signed with Loyola University Stritch School of Medicine Maywood, IL, USA on 2 July 2018. Main objective of the MOU is faculty exchange programs, joint research projects, short-term affiliated courses, trainings, conferences etc.

## **Placement Details**

Percent of students placed: 67 %

Number of companies visited on-campus: 55

## **Extension and Outreach Activities**

NSS Hansraj executed successful events inside and outside college premises. Under its flagship programme, PARVARISH, NSS Hansraj organized computer literacy programme in the adopted Yamuna Khadar Slum. Enabling Unit and Equal Opportunity Cell together worked on different spheres to make life easier and enjoyable for our differently abled students. An Inter-College solo light music competition and an acrobatic yoga performance were organized on 18 January 2019. The society with the help of college administration established a separate reading-writing room in the library for PWDs with all the aiding devices and Braille books. Haritima society initiated the project Hans Chetna. Under this initiative, a school has been adopted wherein members conduct monthly sessions on issues of environment concern with the students.

## **Library Development**

RFID has been introduced that has significant potential to speed up library services and streamline time consuming operations such as check in – check out, sorting, stock management and inventory when compared to barcode based solution. Library purchases are made from well- established publishers in consultation with staff members, under the supervision of the library advisory committee. Last year 1440 books were added and 50 magazines were subscribed. A total of 143500 books were issued to students and teachers. The central library remains open on all working days from 8:00 a.m. to 5:00 p.m. This helps students to easily avail the library services beyond their classroom hours. During examination time, the library is open even on Saturdays and Sundays till 4:00 p.m. Our college has an enabling unit with a Braille library, computers, and other facilities like readers, writers, scanning, printouts etc. to help visually and physically challenged students.

## **Faculty Strength:**

Total faculty strength which includes permanent and ad-hoc: 188

## **Financial Allocation and Utilization:**

Grand sanctioned: Rs. 49,65,00,000/-

Grant utilized: Rs. 50,53,00,000/-

## **Other Significant Information**

Students under exchange programme: Two MD students (Mr. Steven Goicoechea and Ms. Jessica L Simpson) from Loyola University-Stritch School of Medicine (LU-SSOM), USA visited college for training programme from 15 June till 14 July 2019. This is under the Global Health Partnership between LU-SSOM and Hansraj College, University of Delhi.

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## **HINDU COLLEGE**

## **Major activities and achievements**

College was ranked 2<sup>nd</sup> in NIRF All India Ranking 2019. In the 'India Today' ranking, college secured 2<sup>nd</sup> all India rank in Science, Commerce, and Arts Stream. College strengthened its claim to be recognized as a truly global institution by collaborating with National University of Singapore (NUS) to host the 'Asian Undergraduate Summit 2018'. The theme of the summit was '*Leadership in a Complex World: Taking on Diffused Responsibilities*'. The unique feature of the summit was participation of students from

universities of Hong Kong, Singapore, Thailand, China and South Korea. In the second summit, students from our college along with those from other Asian Countries participated in the event organized at NUS, Singapore. Significant academic contributions were made by the college faculty members: 9 Ph.D. degrees were awarded, various national and international publications were produced and several papers in books and journals were published.

### **Honours/Distinctions**

Nine faculty members were awarded Ph.D. degrees.

Dr. Ravi N. Singh was awarded a fellowship by Nostra Aetate Foundation of Pontifical Council of Inter-Religious Dialogue, Vatican City and Rome, Italy from October 2018 to February 2019.

Dr. Ravi N. Singh invited as a resource person by Grain Media, UK Documentary hosted by Al Jazeera on 'Winds of Change: Eco-Cremation in India and Green Power on Samso, Denmark' from 5 to 8 July 2018.

Ms. Priya Singh awarded with ISME-AMI early career travel fellowship award-2018 for organizing the ISME-AMI pre-conference workshop entitled, "Hands-on to Computational Biology for (Meta)genomics Analysis" in capacity of Resource Person during the 59th Annual Conference of Association of Microbiologists of India and International Symposium on Host-Pathogen Interactions (AMI-2018) held at School of Life Sciences, University of Hyderabad on 9 December 2018.

Dr. Harindra Kumar elected as a Government Representative by the External Affairs Ministry of Government of India at the Eleventh World Hindi Conference held in Mauritius.

Dr. Pallavi Saxena selected as a Chair of South-Asian and Middle-East Region for Early Career Scientists Network of iLEAPS Community from 1 January 2018 to 31 December 2019.

### **Publications**

Antony, D. M. (2018). The Conceptual Synonymity of the Ethical and the Religious. *International Journal of Applied Ethics*. 6: 85-101 (ISSN: 2321-2497).

Ashdhir, P., Saxena, Y., Kushwaha, A. (2018). Inertial Versus Non-Inertial Frame of Reference. *Physics Education (IAPT)*. 34 (3) (ISSN Number: 0970-5953)

Ghorai, S. M. (2018). Reptilia: Cellular Immunity in Reptiles: Perspective on Elements of Evolution. In E.L. Cooper (ed.), *Advances in Comparative Immunology*. Springer International Publishing AG, Springer Nature.

Jain, R., Sharma, P., Ghosh, C. (2018). Application of Green Nanoparticle in Dye Degradation. *Environmental and Ecological Sustainability*. (ISBN: 978-93-87960-94-7)

Jonwal, C.L. (2018). Biochemical Changes in Testes of Swiss Albino Mice exposed to 2.45 GHz Microwaves Radiation. *Journal of Medical Physics*, IAEA (International Nuclear Information System, April 2018)

Kapoor, S. (2018). African Protonova, African Resilience and Africa Today. *Indian Journal of African Studies*. 22(1&2): 109-125.

Khare, D., Srivastava, A., Saxena, P. (2018). Blue Haze Pollution – A hidden Threat to Health. *Science India Magazine*, [scienceindia.in/home/view\\_article/355](http://scienceindia.in/home/view_article/355).

Manocha, R. (2019). Impact of Regional Trade Agreements on India's Trade Potential: The case of SAARC and APTA. *FOCUS: Journal of International Business*. 5: 13-16.

Saxena, P., Naik, V. (2018). *Air Pollution: Sources, Impacts and Control*. Oxford, UK: Cabi Publishers. (ISBN 13: 9781786393890; available online)

Tandon, A., Kala, G. (2018). Literacy, Language and Social Sciences. In R. Kumar, S. Chandra and B. Kaushik (eds.), *Teacher Education in the 21st Century*. New Delhi: Sage.

### **Seminars Organized**

Seminar entitled, 'Actuarial Science and Interview Skills' delivered by Mr. Charchit Agrawal, a qualified actuary with over ten years of experience on 2 April 2018.

Seminar entitled, 'Constabulary and Chaukidari in Colonial Bengal' delivered by Dr. Partha Pratim Shil of University of Cambridge in the year 2018.

Seminar entitled, 'Understanding and Preparing for Personal Interviews' by Prof. Jean Saldanha, MHRM, ATD Master Trainer was delivered on 7 September 2018.

Seminar entitled, 'Admission Process Abroad for Post Graduation' was delivered by Mr. Arjun Sharma, Manager (Manya) on 7 January 2019.

Seminar entitled, 'How to Prepare for Management Careers' was delivered by Gautam Lakhamraju, CMO, Great Lakes Institute of Management on 16 January 2019.

### **Conferences Organized**

Organized an international conference entitled, "International Conference on Public Policy", in collaboration with Department of Political Science, University of Delhi from 4 to 6 February 2019.

Organized 10<sup>th</sup> IASR national conference entitled, "Gandhi and Religion: Multidisciplinary Perspectives" in association with Indian Association for the Study of Religions (IASR) and Indian Council for Social Science Research (ICSSR) on 8 and 9 February 2019.

### **Seminar/Conference Presentations**

Archana Aggarwal presented a paper entitled, "Manufacturing Profits: Modes of Surplus Extraction at lower end of Global Value Chains" at an International Conference organized by ADRI in Patna, 16-18 June, 2018

Chandan Singha presented a paper entitled, "Causal Impact of Adoption of Soil Conservation Measures on Farm Profit, Revenue and Variable Cost in Darjeeling District, India" during the 20<sup>th</sup> Annual BIOECON Conference held at Kings College, Cambridge University, Cambridge, United Kingdom from 12 to 14 September 2018.

Gitika De presented a paper entitled, "Grassroots Mobilization for Transparency Law in India: Towards Substantive Citizenship?" at the International Conference on '1968-2018, Fifty Years After: Where is the Social Movement Field Going?' organized by COSMOS/SNS, ECPR/SG P&M, Scuola Normale Superiore, Florence, Italy from 23 to 25 May 2018.

Chandrachur Singh presented his work entitled, "Understanding and Fighting Gender Inequality" during an International Workshop organized by Institute of Advanced studies at the University of Birmingham, UK on 17 and 18 May 2018.

Maneesha Pandey presented a paper entitled, "Addressing Cleaning Habit concerns; Swacch Bharat Mission" during the International Conference organized by India Public Policy Network & Department of Political Science, University of Delhi.

Shankar Kumar presented a paper entitled, "Ancient Medical Conceptualisations of the Indic: Its Convergences and Departures with the Greek" during a National Seminar on 'Indic Thought: Exploring the Indianness' organized by Goa University held at Goa on 28 and 29 January 2019.

Anita Rajpal presented a paper entitled, “शतपथ ब्राह्मण में पञ्चाग्नि-विद्या” at the two day National Conference held at Swami Samarpananand Vaidika Shodha Sansthan, Meerut on 22 and 23 August 2018.

Reema Gupta presented her work entitled, “Piezoelectric Cantilevers: Step towards Self Sustenance” during the National Seminar on ‘New Trends in Nanotechnology and Applications’ (NTNA-2018) held at ARSD College, New Delhi on 27 and 28 September 2018.

#### **Placement details**

Number and percentage of student’s details: Approx. 70% of the students registered with the Placement Cell.

Number of companies visited for campus: More than 30 renowned companies and start-ups.

#### **Extension and Outreach Activities**

Number of camps like blood donation camp, cleanliness drive, cloth donation drive, , scholarship drive and swachh campus rally were organized by NSS unit of the college. Participation in the combined annual training camp, representation in Republic Day camp and Nau-Sainik camp were important features of the year. College organized camp during the international yoga day, celebrated surgical strike day and national voter’s day by involving NCC cadets.

#### **Library Development**

Total Budget = Rs. 9,97,500/- (Book Fund) and Rs. 9,75,000/- (Library Development)

No. of books added in the year 2018-2019 = 1284

Wifi facility available in the library

#### **Faculty Strength**

Total sanctioned faculty: 163

#### **Financial Allocation and Utilization**

Grant sanctioned: Rs.50.68 crore

Grant utilized: Rs.46.83 crore

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### **HOLY FAMILY COLLEGE OF NURSING**

#### **Major activities and achievements**

Elections of Students Nurses’ Association (SNA) were held during the month of October 2018. SNA is involved in assisting co-curricular activities of students. Students participated in various cultural, sports and educational activities taking help from SNA at the State level throughout the year. Health related important National and International Days were also celebrated. Annual sports week was celebrated in the month of February 2019. 3<sup>rd</sup> Annual Convocation was organized on 15 March 2019. Noble Peace Laureate, Shri Kailash Satyarthi, was the Chief Guest of the Convocation Day. The new website of the College [www.hfcondelhi.edu.in](http://www.hfcondelhi.edu.in) was launched on 1 January 2019 by Archbishop Anil J. T. Couto. MCH lab has been upgraded to Skill lab with all latest equipment and manikins.

#### **Students with Distinctions**

Anjali Bharti, first year student, was awarded first prize in the painting competition on the theme "Circular Economy for productivity and sustainability" organized by National Productivity Council under Ministry of Commerce and Industry, Govt of India.

## **Publications**

Arora, S. (2018). Quality of life of people living with substance users in urban and rural community of Delhi. *Current Medicine Research and Practice*. 8(3): 3-9.

## **Journals**

Dr. Sumity Arora serving as a reviewer in the Indian Journal of Psychiatric Nursing.

## **Conferences/ workshops organized**

Workshop entitled, "HIV awareness and counselling" was organized by faculty members and was attended by employees from Lab and Nursing departments of Holy Family Hospital.

State level workshop entitled, "Nursing Theories" was organized by M.Sc. II year nursing students from 19 to 21 November 2018.

Three days workshop entitled, "Communication –A patient centered approach" was organized by M.Sc. I year students from 7 to 9 March 2019.

CME was organized by M.Sc. Nursing students on the following topics:-

HIV AIDS-A silent killer; Psychiatric Emergencies; Pain Management and Shock Management; National Health Mission Module for ASHA WORKERS on 11 January 2019.

## **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**

Urban Community Health Experience was provided in collaboration with Community Health Department of Holy Family Hospital. Students were posted in MCH Centers in Defence Colony, Cheshire Home, Jeevan Jyoti & Chest Clinic, Nehru Nagar and Godhuli Old Age Home. Students had their Rural Community Health Experience in RHTC Najafgarh. Students participated actively in National Health Programmes and Health Awareness programmes through skit, role play, street plays and exhibitions. Students also conducted School Health Programme on monthly basis in Vidya Bhavan School and Cheshire Home Day Care Centre. They also actively participated in Govt. School Health Programs in different zones with PHN. Two Health Camps were organized in Subhash Camp and Taimoor Nagar. Students organized Disaster Drill in Nehru Public School Aligaon and Taimoor Nagar area. Health Camps were organized in Aligaon and Taimoor Nagar.

## **Library development**

A total of 96 book racks were made available in the library including 5 journal racks. There are 1789 nursing books available for the students. Seating space and internet facility is also available for the students.

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## **INDIRA GANDHI INSTITUTE OF PHYSICAL EDUCATION & SPORTS SCIENCES**

### **Major Activities and Achievements**

Skill development training programme for MTS staff was conducted 5 to 24 May 2018. Self-financing certificate course in yoga education was organized from 29 May to 30 June 2018. Self-financing fitness trainer course (FITCO) was conducted from 2 to 31 July 2018. An entrance based admission of B.Sc. (PE, HE&S) of 2018-19 successfully completed under the chairmanship of the officiating Principal. Student

interaction with Mr. Amit Panghal, Gold Medalist, Asian Games 2018 (Boxing) was organized by Students' Union. Delhi Olympic Association organized Delhi Olympic Games – 2018 of JUDO (Men and Women) and Rope Skipping. Vigilance awareness lecture and presentation was organized during the Vigilance Awareness Week – 2018. A story reading program was well appreciated. A lecture on “Road Safety” was organized on 22 November 2018. Fresher's party – UDBHAV was students attraction.

### **Students with Distinctions**

Neha Sharma of M.P.Ed., Rajshree of B.P.Ed. and Vrisabh Bajaj of B.Sc. were awarded first rank in the University.

Surbhi Jain of M.P.Ed.), Jimy Joy of B.P.Ed., Satya Kumar and Deepal Singh of B.Sc. were awarded second rank in the University.

Deepali Seth of M.P.Ed., Bharat Harit of B.P.Ed. and Kamal Singh of B.Sc. were awarded third rank in the University.

### **Publications**

Ahlawat, U., Shaw, D., (2018). Kinematic Analysis of Quadriceps Extension Exercise for Lower Extremities with 15 RM Load. *Scientific Journal in Sports and Exercise* (Laxmibai Sports Education and Welfare Society, 14:09-17.

Ahlawat, U., Shaw, D., (2018). Kinematic differences among the players/repetitions and between the gender in regard to left (subordinate) leg lunges exercise for lower extremities with 15 RM Load. *An International Journal Academic Research and Development*. 3:167-173.

Bhatt, S. A., Kumar, B., Shaw, D., (2018). Recovery Blood Pressure reactivity Patterns during Hand Grip Test ( one of the Autonomic Testing Protocol) in Relation to Aerobic Fitness Levels. *An International Journal of Physical Education and Sports*. 3(6): 08-13.

Premchandra, T., Kumar, P., Pani, B., Kapur, L., and Shaw, D. (2018). Biomechanical Variables of Sprinting and Dribbling performance Highlight Gender Differences in Football Player. *DU Journal of Undergraduates Research and Innovation*. 3(1): 74-82.

Shalini, S., Shukla, R., Shaw, D. (2018). Effect of step aerobic training for six weeks with 6 inches step platform at 118 and 126 beats per minutes (BPM) on kinematic (Partial temporal) variables. *An International Journal of Yoga, Physiotherapy and Physical Education*. 3(2):70-75.

Shaw, D. (2018). Professional and Academic Development in Physical Education and Sports Sciences to be Skilled India A Vision Document 2018. *Proceedings of 4<sup>th</sup> National Conference on Physical Education & Sports Sciences*. Pp. 55-61.

Shaw, D. (2018). Kinesiology and Biomechanics Enhancing Performances. *Science Reporter* A pp. 23-24.

### **Journals**

Published by the college: **PRIYADARSHINI - 2017**

Number of College Teacher's serving as Editor(s)/Member(s) of Editorial Board: 7

Dr. Sanjeev Kaushal (C), (Dr. Sarita Tyagi, Dr. Rakesh Gupta, Dr. Rajbir Singh, Dr. Vijay, Dr. Ekta Bhushan Satsangi, Dr. Meenakshi).

### **Seminar/Workshop Organized**

A seminar on 'Sensitization for Prevention of Sexual Harassment against Women at Workplace' was delivered by Ms. Sasmita Tripathy, Adv. Hon'ble Supreme Court of India on 5 October 2018.

A seminar on 'Know Your Rights (Gender Sensitization)' by Ms. Somya Singhal, Campaign Manager, Ab Samjhauta Nahin delivered on 22 January 2019.

A seminar on 'Healthy Life Style, Food & Vitamins Supplement' by Dr. Balram Pani, Principal, Bhaskaracharya College of Applied Sciences was delivered on 5 March 2019.

### **Seminar/ Conference Presentations**

Dhananjay Shaw was a Plenary Speaker in the Global Conference on Physiotherapy-2018 (GCP-2018) and presented a paper entitled, "Kinesiology Taping for Enhancement of Sports Performance and Better/Active/Quality life: A Research Prospective" in Kuala Lumpur, Malaysia during 20 and 21 August 2018.

Dhananjay Shaw was a Resource Person in the National Conference on 'Anti-Doping at DAIC', New Delhi organized by National Anti Doping Agency (NADA) and Physical Education Foundation of India under the aegis of Ministry of Youth Affairs and Sports, Govt. of India on 30 and 31 January 2019.

Dhananjay Shaw served as a Guest of Honour and a Resource Person during the Technical Session of International Conference entitled, "Sports Psychology and Yogic Sciences (ISCPYS-2019)" held at Dr. Ambedkar College, Deekshabhoomi, Nagpur, Maharashtra on 16 and 17 February 2019.

### **Placement Details**

Number of students placed: 89

### **Library Development**

Digital library was successfully implemented during the year 2018-19 and the users have access to full text documents of old question papers for M.P.Ed., B.P.Ed and B.Sc. courses; all Ph.D. thesis and Dissertations awarded since 2013 onwards. Library database, "Vidya: Library Management Software" has been put on-line through XAMPP Server. Total library collection 12644 books (which include 9017 accessioned books, 2300 reading room books, 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.

### **Faculty Strength**

Total permanent: 27 (including Officiating Principal)

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 9,69,888/-

Grant utilized: Rs.13,68,25,024/-

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## **INDRAPRASTHA COLLEGE FOR WOMEN**

### **Major activities and achievements:**

College inaugurated its 6<sup>th</sup> Centre for Sanskrit Studies and Research and ten-day Sanskrit spoken course was initiated this year. College launched its Science Society – Ananta. Department of Multi Media and Mass Communication celebrated its 20 years with organizing an International Media Festival. College hosted first Fulbright-Nehru Visiting Scholar (Resident), Prof. Roseann M. Mandziuk. Faculty members of the college published 7 books and 160 research articles in national and international journals. B.A. Programme students launched an on-line Radio Webcast-IP VAANI. Community outreach programme worked tirelessly to reclaim and rehabilitate persons engaged in undignified manual labour. A multi-pronged mental health awareness programme was also launched. College was awarded with 'Plastic Free College Award'.



## Honors/Distinctions

Dr. Babli Moitra Saraf, Principal, received the 'Lifetime Achievement Award' on the occasion of United Nations World Teachers Day at the Higher Education and Research Summit for a Cleaner World.

Dr. Debjani Sengupta was an invited scholar at University Paul Valery, Montpellier, France.

Dr. Ankita Pandey, a Common-Wealth scholar, awarded with doctorate degree along with Dr. Chander Shekhar, Dr. Mohammed Sayeed and Dr. Nawin Kumar Tiwary.

## Students with Distinctions

16 students of different courses were awarded first position in the University.

Shreya Saksena participated in 49<sup>th</sup> Grand Prix of Liberation at Plisen, Czech Republic in the month of May 2018 and was placed in IX Position in 50m Rifle 3P. She also represented India during the 52<sup>nd</sup> ISSF World Shooting at Changwon, South Korea in September 2018

Semzes Dolma represented at the competitions organized by International Ice Hockey Federation (IIHF) at Kuala Lumpur, Malaysia in the year 2018.

Palak Maheshwari and her team were felicitated with first prize for their film '*(Dis)abled*' during the 'International Documentary Film Festival, Prakriti' in the month of December 2018.

Kaushiki Negi secured third position for a short Ad film '*Call Drop*' during the 'National Short Ad Film Competition' organized by Jaago Grahak Jaago in the year 2018.

## Publications

Total No. of Publications by Faculty: Books 7; Research Articles 83 (International) 77 (National)

Dhanda, P. (2019). Ideas of Charan Singh: An Alternative Perspective of Development. *Economic and Political Weekly*. LIV(14): 35-42.

Garg, A. (2018). Temporal Mount in Air Pollutants Allied with Religious Fiesta: Diwali, Festival of Lights in Tanu Jindal. ed. *Emerging Issues in Ecology and Environmental Science*. Cham: Springer. pp. 11-25. ISBN No. 978-3-319-99397-3.

Khurana, G. (2018). A new high accuracy cubic spline method based on half-step discretization for the system of 1D non-linear wave equations. *Engineering Computations*. Doi number: 10.1108/EC-04-2018-0194.

Kumari, B. (2018). *Bujhnuk*. Patna/Madhubani: Navarambh Prakshan. ISBN No. 9789382013747.

Kumar, H. (2018). *Agrabhaagvatam*. New Delhi: Agravishwa Trust. ISBN No. 978-93-87232-03-07.

Mehta, D. (2018). Cosmopolitan Retellings and the Idea of the Local: The Case of Salman Rushdie's *Shame* in J.Y.C. Wong. ed. *Asia and the Historical Imagination*. Singapore: Palgrave Macmillan. pp. 127-154. ISBN No. 978-981-10-7400-4.

Mishra, A. N. (2018). *Bazar Ke Aranya Mein*. Panchkula: Aadhar Prakshan. ISBN No. 9789387555006.

Sengupta, D. (2018). *Partition Literature: An Anthology*. New Delhi: Worldview Publishers. ISBN No. 978-93-82267-37-9.

Sethi, R. (2019). *Main Kahin aur bhi Hota Hoon: Kunwar Narain ki Kavitaen*. Panchkula: Aadhar Prakshan. ISBN No. 9789387555259.

Singh, R. K. (2018). *Stree Vimarsh Ki Bhartiya Zameen Aur Hindi Kahani*. New Delhi: Shri Natraj Prakshan. ISBN No. 978-93-86113-79-5.

## **Journals**

Published by the College: *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**

College supported project entitled, “Dust Capturing Capacity of the Existing Green Cover and Lessons for the Future: A Study of Indraprastha College for Women, University of Delhi”. Amount sanctioned Rs. 6,000/-.

## **Seminars Organized**

A seminar entitled, ‘Gandhi’s Engagement with Religion’ by Dr. Hilal Ahmed in the month of February 2019.

A seminar entitled, ‘30 Years of Recasting Women: The Names of Violence’ by Prof. Kumkum Sangari during January 2019.

A seminar entitled, ‘The Model of Development and Tribals’ by Sanjay Joshi in the month of January 2019.

A seminar entitled, ‘Costing the Earth? Tourism and the Coastal Environment: Lessons from the Southeast Asia’ by Dr. Mark Hampton in the month of September 2018.

## **Conferences/ workshops Organized**

A chat with Diplomat Series organized in collaboration with Global Youth India Team. Mr. Bjorn Grozinger, Industrial attaché for German Office, Embassy of Germany was the Speaker, August 2018.

Royal Society of Chemistry, UK collaborated with college to organize ‘Yusuf Hamied Inspirational Teacher Training Programme’ for school teachers of Science, sponsored by CIPLA.

Workshop in collaboration with Lean In India on ‘Soft Skill – a Guide to Body Language During Interviews’ by Khyati Gupta Babbar, Founder Santulan was organized in February 2019.

Workshop entitled, ‘Well Being’ was organized by Peace Education Programme, Prem Rawat Foundation in October 2018.

## **Seminar/Conference Presentations**

Babli Moitra Saraf presented a paper entitled, “The allegory of the cave from Plato’s Republic: A multimedia presentation on the occasion of World Philosophy Day” in college on 15 November 2018.

Jayashree Borah presented a paper entitled, “Memory and Identity: Narratives of Migration in Assam, North East India: Exploring Philosophy, Culture & Environmental Sustainability” in a conference organized by Daulat Ram College, University of Delhi in collaboration with Indian Council of Philosophical Research and PA Sangma Foundation on 10-11 January 2019.

Papori Konwar presented a paper entitled, “Muga and the Tai ahoms: Weaving History and Identity, Identity and Diversity within Boundaries and Margins” during a conference on ‘Exploring Literature and Culture from India’s North East’ organized by the Centre for North East Studies and Policy Research, Jamia Milia Islamia, New Delhi on 14 March 2019.

Anindita Roy Saha presented a paper entitled, “Role of Green Belt in Reducing Particulate Matter inside an Institutional Area” during a National Conference on ‘Urban Environmental Sustainability’ organized by Kalindi College, University of Delhi and Mahatma Gandhi Institute for Combating Climate Change, Govt. of NCT of Delhi, New Delhi on 7-8 February 2019.

Vinita Sinha presented a paper entitled, “Revisiting Trauma: Possibilities in Art, Community, Place and Identity: Possibilities of Oral History” during a conference organized by Ambedkar University held on 1-2 February 2019.

Manisha Bansal presented a paper entitled, “A 5-approximation for Universal Facility Location” during a conference on ‘Foundations of Software Technology and Theoretical Computer Sciences (FSTTCS)’ organized by Indian Association for Research in Computing Science (IARCS) on 10-14 December 2018.

Meena Bhargava presented a paper entitled, “(Re)Presenting the ‘Medieval’ in Indian History” during the Ashoka History monsoon seminar series organized by Ashoka University, Sonapat on 5 September 2018.

Ankita Pandey presented a paper entitled, “Investigative fact-finding in Civil Rights Activism” during an annual conference organized by the British Association for South Asian Studies Exeter, UK from 18 to 20 April 2018.

Rashmi Pant presented a paper entitled, “Producing the ‘Local’: Land, Caste and Custom in Kumaon, 1900-1950” during an International Conference on ‘Asia in Motion: Geographies and Genealogies. American Association of Asian Studies’ organized by Yale University, USA in collaboration with Ashoka University, Sonapat from 5 to 8 July 2018.

Debjani Sengupta presented a paper entitled, “Ecotones: Partitions and Borders” in a conference organized by CSSS, Kolkata in collaboration with University of Poitiers, University Paul valery, Concordia University from 13 to 15 December 2018.

#### **National/International MoUs Signed**

MoU signed with Middlebury, Vermont, USA, April 2019.

MoU signed with Department of Communication Studies, Texas State University, San Marcos, Texas, USA, and Department of Multi Media and Mass Communication of the College, January-May 2019.

MoU signed with Balipara Tract and Frontier Education, Guwahati.

MoU signed with Chintan Environmental Research and Action Group for plastic and e-waste management.

#### **Placement Details**

Number of students placed: 63

Number of companies visited for campus recruitment: 10

#### **Extension and Outreach Activities**

Project Noor, a college community outreach programme, was launched successfully. The project aimed at the adoption of a community in Khyber Pass area of people engaged in undignified labour and also for their rehabilitation. Various activities were conducted under International Award for Young People programme in September 2018. An orientation on ‘Mental Health’ by Dr. Dhaval Mody, Round Glass Peace Foundation was conducted in August 2018. Release of the book *The RTI Story: Power to the People* and Symposium with the Alumna Author Dr. Aruna Roy was held in April 2018. Music archives and listening room of the college conducted a Certificate Course on ‘Music Appreciation – An Introduction to Hindustani Music: Tradition and Aesthetics’, for the community.

#### **Library Development**

A total of 94347 books are available in the library. Online services like e-journals and e-databases are available for the students. Photocopying and printing service available. Special facilities and services for PH/VH students and faculty members, special cubicles with computers equipped with screen reading software, three-in-one angel pocket daisy player, Daisy books (talking books) and other relevant software are available.

## **Faculty Strength**

Total permanent: 87

Total Ad-hoc: 83

## **Financial allocation and Utilization**

Grant sanctioned: Rs. 33,45,00,000/-

Grant utilized: Rs. 44,51,40,000 /-

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## **INSTITUTE OF HOME ECONOMICS**

### **Major Activities and Achievements**

Institute of Home Economics is a premier educational institute imparting value based quality education to empower women students. It was founded in 1961 by Dr. S. Malhan and ever since then it has been growing in leaps and bounds. 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 B.A. (Hons) in Journalism. Also the college offers post - graduate courses in Fabric and Apparel Sciences and in Food and Nutrition, Diploma in Dietetics and Public Health Nutrition and in Health and Social Gerontology. A number of students have been registered for Ph. D. program as well. College has been awarded with 'A' grade by NAAC, FIST grant from Department of Science and Technology (DST) and Star College Scheme grant from Department of Biotechnology (DBT).

### **Honours / Distinctions**

Dr. Geeta Trilok Kumar was invited as an expert for Indo-French Workshop on Scientific Cooperation for Agricultural Research, from 2016 every year till date and has been a member of UK-Research Initiative & Reviewer of Medical research council, UK from 2017 till date. She has been a member of screening committee under Grant-in-Aid scheme of Department of Health Research, Ministry of Health and Family Welfare, Government of India, 2016 – 2019.

Dr. Bhupender Kumar and Dr. Savita Bansal received the best paper award for their international publication in the area of Molecular Oncology at International RULA awards for International Innovation and betterment, Excellence in Technical Research on 12 November 2018.

Dr. Seema Puri has been a member in scientific panel on Labelling/Claims and Advertisements, FSSAI, 2017 till date and also a member of the governing council of the National Dairy Development Board's Foundation for Nutrition, 2017 till date.

Dr. Pratima Singh received Springer best paper award in the 'Occupant's Performance and Behavioural Studies Category' at the 1<sup>st</sup> Asian Conference on Indoor Environmental Quality organized by ISHRAE, IAQA and SIE at Indian Aviation Academy, Vasant Kunj, New Delhi on 1 and 2 February 2019.

### **Publications**

Aggarwal, S., Goswami, S., Nayyar, T., Kumar, K. (2018). Gender gaps in Digital Literacy: Perspective of urban rural space. *International Journal of Movement Education and Social Sciences*. 7(Spl Issue 1): 219-226.

Azad, Y., Kaur, B. (2018). Women Empowerment through media education: Transforming spectators to change makers. *English Studies International Research Journal* . 6(1): 34 -38.

Gupta, S., Arora, K., Kumar, T. G. (2018). Zinc Content of Cereals and Pulses in Delhi. *The Indian Journal of Nutrition and Dietetics*, 55(2): 227-241.

Gupta, S., Kapur, D. (2018). Depression, Anxiety and Stress among Female College Students in Delhi having Normal and Disordered Eating Behaviors. *Indian Journal of Youth & Adolescent Health*, 5(4):1-5.

Kumari, T., Kumar, B. (2018). High-mobility group box 1 protein (HMGB1) gene polymorphisms and cancer susceptibility: A comprehensive meta-analysis. *Clinica Chimica Acta*. 483: 170–182.

Malik, A., Eggersdorfer, M., Kumar, T. G. (2019). Vitamin E status in healthy population in Asia: A review of current literature. *International Journal for Vitamin and Nutrition Research*. Pp1-14

Pannu, P., Kaur, M. (2018). Analysis of Female Foeticide Related News Coverage in Indian Daily Newspapers. *Human Rights International Research Journal*. 6(Special Edition): 224-227.

Singh P., Arora R., (2018), Indoor Air Quality in Schools: A review Based Study. *International Journal of Engineering and Scientific Research*. 6(3): 139-144.

Suri, M., Bhardwaj, M., Singh, P., Kapila, R. (2018). A pilot study on prevalence of malnutrition, pain, depression and anxiety in elderly population in Delhi. *Journal of Clinical Gerontology & Geriatrics*, 9(3):91-98.

Vaid, N., Gupta, M. (2018). Grassroots Comics for Safety and Security of Women: An exploratory Study of Using Participatory Approaches for Spreading Awareness. *Human Rights International Research Journal*. 4: 253-258.

## **Journals**

Number of college teachers serving as Editor/ Members of Editorial Board - 3

## **Research Projects (Maximum 5)**

University of Sydney and World Bank project entitled, ‘Addressing Critical Failures in infant and young child nutrition among working women in urban Delhi’ (2018-2019). Sanctioned amount: USD 59,500/-

UGC and New Zealand Research Council Education Council grant entitled, ‘Nutritional status of young children living in slums of south Delhi’ (2015 -18). Sanctioned amount NZD 53,463/-.

Wellcome Trust- DBT and London School of Hygiene and Tropical Medicine project entitled, ‘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’ (2018-22). Sanctioned amount Rs. 4,29,21,974/-.

Bill and Melinda Gates Foundation BIRAC project entitled ‘Healthy Birth, Growth and Development Knowledge Integration (HBGDKI)’ (2017 -19). Sanctioned amount 8 lakhs.

Ministry of Women and Child Development, Government of India project entitled ‘Opportunities and Challenges in Digital Literacy: Assessing the impact of Digital Literacy training for Empowering Urban Poor Women’ (2017-19). Sanctioned amount Rs. 11,06,700 lakhs

## **Seminars / Workshops organised**

Seminar on ‘Microcalypse- Reign of Microbes’ was organized on 14 March 2019 wherein the following speakers were invited for their respective talks:

Dr. Chandrasekhar, ADG, ICMR on ‘Role of ICMR in Research’.

Dr. Amulya Panda, Director, National Institute of Immunology on ‘High Cell Density Fermentation for Production of Biologicals’.

Dr. Naseem Gaur, Scientist, ICGEB on ‘Yeast: A Preferred Host for Industry and an Emerging Human-Fungal Pathogen’.

Seminar entitled, 'Protein and Haemoglobin Biochemistry' by Prof. Kundu, Head of Department of Biochemistry, South Campus, University of Delhi on 12 October 2018.

Seminar entitled, 'Cognizavest on Leadership Skills' by Ms. Sakshi Seth, Human Resource Manager on 24 August 2018 .

Seminar entitled, 'Radio as an important means of Social change' delivered by Dr. Lakshmi Shankar Bajpai, Retired Deputy Director General AIR on 2 February 2019.

### **Conferences organized**

In order to celebrate 25 years of M.Sc. Food and Nutrition, the department organized a conference on 'Promoting Food and Nutrition for Health and Wellbeing' in collaboration with the Nutrition Society of India, Delhi Chapter at Kamala Raheja Auditorium, NAMS, Ansari Nagar, New Delhi on 15 March 2019. The conference was sponsored by PATH, Global Alliance in Nutrition and California Walnuts.

### **Seminar / Conferences Presentations**

Seema Puri was an invited speaker for her presentation, "Functional Foods and Ageing: An Asian perspective" at the 7<sup>th</sup> Asian Congress of Dietetics, Hong Kong held on 6-8 July 2018.

Ashima Vohra was an invited speaker for her presentation, "Gut Microbiota: Key to good health" during the 4<sup>th</sup> International conference on 'Food Microbiology and Food Market' held at New York, USA on 20-21 March 2019.

Sunita Mishra presented a paper entitled, "Grammatical gender as a tool to create humor in Hindi: A construction grammar approach" at the International Conference of Construction Grammar, Paris held in the month of July 2018.

Ruchira Das presented a paper entitled, "Violence in schooling on the Burden of Citizenship on school going children" during the 9<sup>th</sup> International Conference of on 'Modernity, Transformative Social Identities and Education in Comparative Contexts' held by the Department of Sociology, of Maharaja Sayajirao University of Baroda, Gujarat on 14-16 December 2018.

Savita Aggarwal presented a paper entitled, "The gendered impacts of climate change: Case studies from Asia & Africa" during the International Conference on Human Rights, Gender Studies Law & Social Sciences held at Chandigarh, organized by International Multidisciplinary Research Foundation (IMRF) on 22-24 February, 2018.

Seema Puri presented a paper entitled, "Consumer Acceptability of Double Fortified Salt" during the Dissemination Workshop for DFS held at IDRC and TINI, New Delhi on 7 June 2018.

Manjula Suri presented a paper entitled, "Brain Micro-dialysis" during the conference organized by International Brain Research Organization, Asia Pacific Regional Committee School held at Department of Physiology, AIIMS, New Delhi.

Pratima Singh presented a paper entitled, "Impact of Classroom Illuminance on Concentration Performance of Students" during the 1<sup>st</sup> Asian Conference on 'Indoor Environmental Quality' organized by ISHRAE, IAQA and SIE at the Indian Aviation Academy, Vasant Kunj, New Delhi on 1 and 2 February 2019.

### **National / International MoUs Signed**

MoU signed with Pearl Academy and Department of Resource Management and Design Application of the college.

MoU signed with Indian Pollution Control Association and Department of Resource Management and Design Application of the college.

MoU signed with Greenpeace, India and Department of Resource Management and Design Application of the college.

### **Placement Details**

Number of students placed: 29 students placed as interns

Number of companies visited for campus recruitment: 26

### **Extension and Outreach Activities**

Department of Elementary Education coordinated with 'Eklavya' a community outreach team for designing and teaching six month certificate course entitled 'Childhood, development of children and special needs'. Department of Resource Management and Design Applications trained students for a street play on 'Air Pollution and its related issues' conducted during the 1<sup>st</sup> edition of Asian Conference on Indoor Environmental Quality held on 1 and 2 February 2019 at Indian Aviation Academy, Vasant Kunj. The play highlighted the probable causes of increasing air pollution episodes and its consequences on human health and well-being. College organized a field visit to 'TERI Gram' on 29 October 2018 to enlighten the students with existing environment issues and innovative ways for sustainable development. Students gained insights into Green Buildings, Organic Waste Management, Vermi-Composting, Root Zone Waste Water Management, Bio Mass Gasifier, Smart Grid and Solar Charging Stations.

### **Library Development**

Institute has 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. 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**

Total permanent: 45

Total Ad-hoc: 40

### **Financial Allocation and Utilisation**

Grant sanctioned: Rs. 29,98,52,827 /-

Grant utilized: Rs. 24,12,24,079.56 /-

### **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.

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## **JANKI DEVI MEMORIAL COLLEGE**

### **Major Activities and Achievements**

One of the major achievements of the year was the completion of construction of 'Krishna' hostel which was inaugurated by the Honorable Former President of India, Sh. Pranab Mukherjee on 1 August 2018. The hostel provides safe accommodation and hygienic food to more than 100 students and is also adapted to the needs of the specially-abled. 'PRATIBHA', a centre for foundation classes was launched as a special initiative to help student clear competitive exams. The center also helped students with their civil services exams. Four add-on courses were offered, regular student-faculty interactions were held, remedial classes

and mentoring systems were in place, regular interactions with parents took place, welfare measures for needy students and skill development for non-teaching staff were some of the other measures. Several teaching and non-teaching members upgraded their academic degress.

### **Honours/Distinction**

Dr. Swati Pal awarded with 34<sup>th</sup> Dr. S. Radha Krishnan Memorial National Teacher Award-2018 on the eve of the 131<sup>st</sup> Anniversary of Rashtriya Shikshak Diwas on 4 September 2018 at the Constitution Club of India, for illustrious service and contribution to the field of education.

Dr. Namita Sethi awarded with UGC Travel Grant for attending an International Conference in October 2018.

Dr. Sudha Upadhyaya was appointed as a student reception officer for a SWAYAM project with UGC-MHRD. She also coordinated the MCD Teachers Workshop service tier ITIE, by Tech Mahindra.

Ms. Nirmala Muralidhar (HDFE) awarded with a Certificate of Appreciation by Delhi Police Training School, Sector 9, Dwarka, New Delhi for preparing e-modules for developing the 'NIPUN' project.

Ms. Swati, Ms. Pushpa and Mr. Vikas Saini (library staff members) cleared UGC-NET exam. Other members, Mr. Jai Prakash completed his M.Li.Sc. from Subharti University, Meerut and Mr. Omvir Singh completed his B. Li. Sc. from the same University.

Dr. Abha Jain was appointed convener for several sports committes at the University level.

Garden committee secured III position during the University Flower Show 2019.

### **Students with Distinction**

Sejal Jain and Lavanya Sharma of B.A Programme (HDFE) were selected in the Diploma program of Social Service in Georgian College, Ontario, Canada.

Gritika Sehgal of B.A Programme (HDFE) secured admission in Kingston University for a post- graduation course in Occupational and Business Psychology with integrated placement.

Bhanu Priya of B.A Programme secured second position in (Sufi / Ghazal category) in Global Harmony 2018 – All India Multi-Lingual Music Fest held in Pune by Akhil Bharatiya Sanskrutik Sangh. She also performed as the main artiste with vocalist Ramneek Singh (Canada) at The Oberoi Grand, Kolkata.

Jaya Grover of B. Com. (Hons) III year completed the Swachh Bharat Summer Internship 2018-19 organised by Government of India.

Anisha of B. A. Programme I year awarded with a Gold Medal in Taekwondo event of Delhi Olympic Games.

Diksha Sardana of B. A. Programme I year awarded with a Gold medal in her weight category in Tang Su Do event (Martial art) of Delhi Olympic Game.

Pinky Sharma of B.A (Hons.) Political Science III year secured first position in Inter Battalion Firing Competition (state level). She secured second position at the All India Thal Sainik Camp (national level). Further she was selected for the Inter Directorate shooting championship (national level).

Taranjeet Kaur and Sushmita of B. Com. Programme II year represented India and secured second position in the 'Third India TIA Open International Taekwondo Championship' held at Kolkata.

### **Publications**

Charan, A. (2018) Measuring Effectiveness of Mobile Advertising in India. *Business Transformation Through Green Growth, Globalisation and Governance*. New Delhi: JSR Publishing House, 2018. 28-35.

Chopra, C. (2018) Does Foreign Direct Investment Boost Up Women Empowerment: A Panel Data Analysis of Developed and Developing Countries. *International Journal of Applied Business and Economic Research*. 8(1): 83.



Maurya, S. (2019) Financial Inclusion in India- Recent trends with special reference to Pradhan Mantri Jan Dhan Yojana. *International Journal for Research in Engineering Application and Management* 4(10): 228-91.

Pal, P. (2018) Challenges Before Social Security and Welfare Code, 2017. *International Journal of Research in Humanities, Arts and Literature*. 6: 6.

Narayan, S.A., Payal, N. India. *The Journal of Commonwealth Literature*. 53(4): 600–631.

Gupta, S. (2019) Vibhajan ka Itihas-lekhan: Badalti Rooprekha, in *Aalochana* 59: Vibhajan ke Sattar Saal. 29-41.

Muralidhar, N., Vikas, M. (2018) The eye of the beholder: Catching retinoblastoma early. *Indian Journal of Health and Wellbeing* 9.6: 881-885.

Sharma, A., Gaur, A. (2018) Non-reduced rings of small order and their maximal graph. *Journal of Algebra and Related Topics*. 6(1): 35-44.

Chanchal, K. (2018) Illegal Cross-Border Migration- Impediments to Regional Co-operation. *World Focus*, XXXIX. 6: 91-98.

Shree, R. (2018) Rivers as Commons: Reality or Myth? *SANDRP blog*. Web. 16.

### **Research Projects**

Oxford University Press project entitled, “Teaching Simulation” of Dr. Swati Pal. (from 1 November 2017 to 31 March 2018). Rs 1 lakh.

College sponsored project of Department of Philosophy entitled, “Teaching Film Appreciation: with Special Focus on Cinema as a Medium of Disseminating Alues”. Seed grant of Rs. 30,000/-

A sensitisation project on “Early Detection and Screening of Retinoblastoma” in underprivileged children was launched in November 2017. The second phase of the project began in July 2018 and continued till February 2019 under the supervision of Mrs. Nirmala Muralidhar (Project Coordinator, JDMC) and support of Dr. Vikas Menon (Project Advisor, consultant Ocular Oncologist, CFS, New Delhi).

Research Project entitled, “Effect of Collegiate Physical Education Programmes on Aerobic and Anaerobic Fitness of Girls Student (A Longitudinal Study)” is underway since 2 January 2019.

### **Seminars organised**

Seminar entitled, “Financial Planning and Lucrative Career” in collaboration with International College of Financial Planning was organised on 30 January 2019. Mr. Anil Chopra (Group Director, Corporate Affairs, Bajaj Capital Ltd.) was the resource person.

Seminar entitled, “Getting ready for industry 4.0” was organised in association with Delhi School of Business, VIPS Technical Campus on 16 January 2019. Prof. Neerja Arora, PGDM IIM Calcutta was the eminent speaker.

Seminars entitled, “Future of India, the Economic Reforms and the Skills required in the Coming Decades” and “Global Careers in Law, Diplomacy and Public Policy” organized on 25 October 2018. Prof. Anand Prakash Mishra (Assistant Dean- O. P. Jindal Global Law School) and Prof. Rajeev Malhotra (Faculty and Executive Director, Centre for Development and Finance – O.P. Jindal Global University) respectively were the speakers.

National Seminar entitled, “Revisiting Dilli-6” was organized on 26 October 2018. A galaxy of noted historians and scholars like Prof. Nadeem Rezavi (Aligarh Muslim University), Prof. Najaf Haider (Jawaharlal Nehru University), Prof. Farhat Nasreen (Jamia Millia Islamia) and Dr. Lubna Irfan enlightened the audience on various aspects of the glorious history of Shahjahanabad which we today sometimes refer to as Dilli-6.

## **Conferences Organized**

An International Conference on the theme, “Sustainable Development and the World Economy” was organised by the Department of Commerce on 4 and 5 February 2019 at India International Center, New Delhi. Dr. Andreas Bauer, Senior Country Representative (India), International Monetary Fund was the Chief Guest.

A two-day National Symposium entitled, “Popular Culture” was organized during 28 February and 1 March 2019.

Symposium entitled, “Teaching Film Appreciation: with special focus on Cinema as a medium of disseminating values” was organized during 29 and 30 October 2018 in collaboration with Kalinga Institute of Industrial Technology (KIIT) University, Bhubaneswar.

## **Seminar/Conference Presentation**

Chanchal Chopra presented a paper entitled, “Impact of Foreign Direct Investment on Women Empowerment” at the ‘International Conference on Empowering Women: Fostering Entrepreneurship, Innovation and Sustainability’ organised by Shri Ram College of Commerce in collaboration with Niti Aayog at India International Centre on 16 and 17 July 2018.

Anuradha Goel presented a paper entitled, “Women Empowerment through Entrepreneurship” at the International Conference on 'Empowering Women: Fostering Entrepreneurship, Innovation & Sustainability' organized by SRCC and NITI Aayog on 16 and 17 July 2018.

Puja Pal presented a paper entitled, “Employment Growth in India” Organised Manufacturing Sector” at the International Conference on ‘Sustainable Development and the World Economy’ organised by Janki Devi Memorial College, University of Delhi at India International Centre, New Delhi on 4 and 5 February 2019

Swati Pal presented a paper entitled, “War (and anti war) propaganda: Rituals and Symbols in 'texts” at an International Conference on ‘War Literature: Revisioning Across Genres’ organized by Government Mohindra College, Patiala in collaboration with IAARHIES (ICWLR-2018) on 16 and 17 November 2018.

Swati Pal presented a paper entitled, “Performing the Political: Constructing Nationalism” at the XV International Conference of the Indian Society for Theater Research on ‘Discourses of Dissent: Exploring the Paradigms at the School of Media and Communication’ held at Manipal, from 7 to 9 February 2019.

Tara Sheemar Malhan presented a paper entitled, “Gendered Spatialisation of the Ocean: Of kaivartas, vaniks, brahmanand vidyādhārīs in the Kathāsaritsāgara” during the ‘Ocean Imaginaries and Cultural Heritage Conference ‘Asia in Motion: Geographies and Genealogies’ in July 2018.

Madhwi presented a paper entitled, “Asians Beyond Asia: The Recruitment of Indentured Labourers for Plantation Economy c. 1834 -1910” during the International AAS-in-Asia Conference 'Asia in Motion: Geographies and Genealogies' organized jointly by the Association for Asian Studies, Inc. and Ashoka University, New Delhi, India from 5 to 8 July 2018.

Akanksha Kumar presented a paper entitled, "International Seminar on Partition Revisited” during the National Studies Association (ISA) meeting held at San Francisco, US on 5 April 2018.

Zubeer Ahmed presented a paper entitled, “Iran and Saudi Arabia's rivalry for regional power status in West Asia: Implications for India” on induring an International Seminar on “Changing Geo Political Architecture of West Asia and North Africa: Implications for India” at Aligarh Muslim University on 5 February 2019.

Pouriangthanliu presented a paper entitled, “In the World of Weaves: Social Production and Sustainability of Naga Textiles” in and International Conference on ‘Gender Equality through the Strategy of Gender Mainstreaming’ organised by Presidency University, Bangalore in collaboration with United Nations Information Center for India and Bhutan on 6 and 7 September 2018.

### **Other inter-institutional collaboration**

Department of Sociology in collaboration with Delhi Police Training School Dwarka initiated a project 'CLAP' to carry out Gender Sensitisation workshops for police personnel from September to October 2018. Under this project 1250 police recruits were trained by 2 faculty members and 4 students.

### **Placement details**

Number of students placed: 84

Number of companies visited for campus recruitment: 10 (9 on campus + 1 off campus)

### **Extension and Outreach Activities**

Department of commerce planned educational visits to Mother Dairy Plant in New Delhi and a Coca Cola Plant was their students. College joined hands with 'Bliss Foundation' to spread awareness about breast cancer through the initiative, 'Committed to Conquer Cancer'. A workshop entitled, "Environment and Alternatives to Plastic" was organized on 22 September 2018 in collaboration with 'Smart Company' which seeks to promote a plastic free world by promoting the use of biodegradable/green bags manufactured by it as an alternative to black plastic bin liners in order to solve the problem of accumulation of plastic waste. The use of green bags was promoted which were designed specially for the disposal of sanitary napkins and diapers in public restrooms. Public Awareness Campaign on Retinoblastoma on World Cancer Day was celebrated with a walkathon. The walk was flagged off by Dr. Mahipal Sachdev (Chairman and Managing Director, Centre for Sight, New Delhi).

### **Library Development**

A total of 1148 books were added this year, out of which 1004 were purchased and 144 of them were gifted to the college. Journal/magazine collection of the library includes 7 international and 62 national journals/magazine. There is subscription to 11 different newspapers. Library has also enrolled to NList (e-resource database subscribed through INFLIBNET)

### **Faculty Strength**

Permanent faculty - 69

Ad-hoc faculty - 73

### **Financial Allocation and Utilization**

Grant received - Rs. 61.00 Crore

Grant utilized - Rs. 40.42 Crore

### **Other Significant Information**

College commenced with its celebrations for the Diamond Jubilee Year, this academic year. Many initiatives such as coffee table book, an e-journal, a distinguished lecture series, a documentary film, plantation drives etc. were planned. 'Nupur', the classical dance society won accolades throughout the year. The society was also invited by University of Delhi during the University NAAC Peer Team at the Vice-Regal Lodge. Students from most of the societies got laurels to the college. They have also excelled in the University Sports arena. National Cadet Corps (NCC) students have excelled in various inter-college and NCC events. NCC cadets were declared at first position in Quarter Guard Competition and Squad Drill Competition in Veerotsav – 2018, Annual NCC Fest of Guru Nanak Dev Institute of Technology. NCC students received several other prizes during the last academic year.

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## JESUS AND MARY COLLEGE

### Major Activities and achievements

College continued with its celebrations of 'Golden Jubilee' which was inaugurated by Hon'ble Shri Ram Nath Kovind in 2017. To commemorate 50 years of its vision of "Empowering Women Through Transformative Education", the Golden Jubilee International Conference with the same theme was organized on 3 and 4 October 2018. It was attended by eminent scholars, entrepreneurs and philanthropists from Universities in India and Abroad. The prestigious NDMC school project which was launched by the Hon'ble President made headway in its 2<sup>nd</sup> year in providing academic and holistic education to the school children through conducting classes/workshops in Mathematics, English, Sports and Fine Arts. The first batch of recently introduced B. Voc. Programme in Retail Management & IT and Health Care Management was ready in July 2019 for placement after getting trained in healthcare and retail sector.

### Honours/Distinctions

Dr. Renny Thomas awarded with 'Charles Wallace Fellowship' in Social Anthropology Queen's University, Belfast, UK in 2019.

Dr. Reena Marwah was recognized as a Senior Fellow by 'Institute of National Security Studies Sri Lanka (INSSSL)', Sri Lanka.

Dr. Richa Raj received DG NCC Trophy for "Best Associate NCC Officer on the Course" during the Pre-Commission Training. (PRCN/SW/102) at Officers' Training Academy, Gwalior from 2 August to 17 November 2018.

Dr. Renny Thomas invited as a subject expert to review manuscripts (peer review) and write endorsements for books published by Routledge (London), Lexington (New York), Orient Blackswan (India).

### Students with Distinctions

Subhalakshmi Ray and Sahar Bajaj from Sociology department received 'Maria Phillip Scholarship' for being the best all rounder student.

Priyanka Phogat of B. A. (Hons) History awarded a rank of Sergeant in NCC in the year 2018.

Yadavalli Antara Rao of B. A. (Hons) Economics acted in film 'ASTHI' which was showcased at the 'Cannes Film Festival 2018'.

### Publications

Shashwati, S. (2019) The Unbearable Gendering of Being: Performance of Womanhood as a Source of Stress. *International Journal of Applied Social Science*. 2394-1405.

Doss, C. (2018) Sandwiched Nehru: Religious Minorities and Indian Secularism. *Economic and Political Weekly*. 53(29): 38-47.

Doss, C. (2018) Indian Christians and the Making of Composite Culture in South India. *South Asia Research, Sage Publication*. 38(3): 1-21, 247-267

Khan, A., Shikha. (2018) Generalization of combination – Combination Synchronization of n-dimensional time-delay chaotic system via robust adaptive sliding mode control. *Mathematical Methods in the Applied Sciences*. 41(9): 3356-3369.

Kumar, M. (2018) Swatantrata Aandolan Mein Gandhi Ki Patrakarita ka Sakriya Yogdaan. *International Journal of Innovative Social Sciences and Humanities Research*. 5(2): 2349-1876.

Bhatnagar, P. (2019) Cognition: An overview of its process and application. *International Journal of Social Science Review*. 6(6): 1186 – 1190.

Sarin, C., Moda, V. (2019) Green Consumrism: A Fad or a Sustainable Approach – An Empirical Study: XIVth International Conference on Business Sustainability in 21<sup>st</sup> Century. *Managing People, Planet, Profit*. ISBN 978-93-88912-91-4.

Abraham, M. (2018) Deconstructing the ‘self’ and Empowering the ‘other’: Visionaries in Colonial South Delhi. *Journal of Dharma*. 43(2).

Tripathi, A. (2018) Ramswaroop Chaturvedi Aalochkathayen, Edited by Mahendra Prasad Kushwaha, *Sahitya Bhandar Allahabad*, ISBN No. 978-81-7779-621-6.

### **Journals**

College publishes its e-Journal ‘The JMC Review’ with ISSN No. 2456 – 9550.

The Editorial Board of this journal constitutes of the following teachers:

Dr. Taisha Abraham, Associate Professor (Rtd.), Department of English

Dr. Maya John, Assistant Professor, Department of History

Dr. Sandhya Devesan Nambiar, Assistant Professor, Department of English

Dr. Renny Thomas, Assistant Professor, Department of Sociology

### **Research Projects**

Ministry of Panchayati Raj, NHRM, sponsored projects of Dr. Megha Jacob. Rs. 25,000/- each.

Research Project entitled, “Gifted Education” with Chief Advisor to the Government of India by Dr. Reshma Raichel Jose of Department of Psychology. Rs. 1,95,000/-.

### **Conferences/ workshops organized**

Workshop entitled, “Transactional Analysis” conducted by the Transactional Analytic Centre for Education (TACET) for students of Psychology Department on 7, 11 and 13 February 2019.

Golden Jubilee International Conference namely, “Empowering Women Through Transformative Education” was organized to commemorate 50 years of college.

International Conference entitled, “Social Media Marketing: Opportunities and Challenges” was organized in March 2019

### **Seminar/ Conference Presentations**

Richa Raj presented a paper entitled, “Mahatma Gandhi and the Making of the Indian Nation” as an invited panelist during the 79<sup>th</sup> session of the Indian History Congress held at Bhopal from 26 to 28 February 2019.

Susan George presented a paper entitled, “The Industrialization of Memory: Watching Youtube with Stiegler” during the ‘Thought Machines: National Seminar on Technomateriality and Humanities’ organized by the PG and Research Department of English, Government Victoria College, Palakkad on 14 October 2018.

Sameera Mehta presented a paper entitled, “No cinema for old women?” during a National Conference on ‘The Female Voci/Gaze in the Indian Cinematic Imagination’ organized by the Department of English, Bharati College in 2019.

Maya John presented a paper (via skype) entitled, “One Day in the Life of Johra Bibi: A History of Migration, Precarity and Resistance by Women Domestic Workers”, at the International Conference on ‘New Perspectives on Feminist Labour History: Work and Activism’ organised by the Department of History and Cultures of University of Bologna, Bologna (Italy) from 17 to 18 January 2019.

Amita Paliwal presented a paper entitled, “The Urban economy of Sind in the Seventeenth Century”, during the South Asian Conference organised by Centre for South Asian Studies in South Asia, held at Kathmandu, Nepal from 25 to 27 October 2018.

Sushila Ramaswamy presented a paper entitled, “The Women’s Suffrage Movement: From Margins to Mainstream in Political Socialization, Citizenship and Globalization Process (RC21.08)” at the 25<sup>th</sup> World Congress of the International Political Science Association (Borders and Margins) held at Brisbane, Australia from 21 to 25 July 2018.

Sushila Ramaswamy presented a paper entitled, “The Liberal State and its Evolution, UGC-SAP-DRS-1” during an International Seminar on ‘State, Market and Democracy in India’, held at Jamia Milia University in the month of February 2019.

Sarbani Sharma presented a paper entitled, “European Association for South Asian Studies” during the ‘EHESS International Conference’ held in Paris on 28 July 2018.

Anju Luthra presented a paper entitled, “Social Media Marketing: Opportunities and Challenges ICMM’19” during an International Conference held in college in March 2019.

### **National/ International MoUs signed**

MOU signed with Chiang Mai University, Thailand

MOU signed with North China University of Technology (NCUT), Beijing, China

### **Other Inter-International Collaboration**

College in collaboration with IISER (Indian Institute of Science, Education and Research), Pune organized a one-day Faculty Development Workshop for ‘Writing lesson plans on Climate Change’ on 18 and 19 March 2019.

### **Students under Exchange Programme**

Two students were placed under agreement with Concordia University, New York, USA from 2015 – 2018.

### **Placement details**

No. of students placed: approx 101

No. of companies visited for campus recruitment: approx. 40

### **Extension and Outreach Activities**

Department of vocational studies started an outreach program for B. Voc. students in ‘Geriatrics’ and ‘Adolescents’ in partnership with Sir Ganga Ram Hospital (SGRH). A group of students visited an Eye Camp held at Geeta Bhawan in Kirti Nagar organized by the Reach out Team of SGRH on 1 and 2 February 2019. Geriatrics Group visited the Nirmal Chhaya, the old age home in Chhatarpur on 19 February and 19 March 2019. Educational Programme Society of the college helped underprivileged children from the nearby colonies and conducted classes to impart school level education. They also visited Vivekananda Camp and Sanjay Camp for the distribution of stationery and notebooks for more than 100 children. The Research and Development Cell of Economics Department started a project in Sanjay Camp Slum to collect data for the purpose of research and spreading awareness on the issues of Health, Education, Sanitation, Household assets and other demographic characteristics.

### **Library Development**

Library acquired 616 books during 2018 – 2019. Total 95 journals have been subscribed during the year out of which 79 are national and 16 are international journals. The total collection of the library books increased to 54536 books which includes 48133 general books and 4975 donated books (out of which 1428 are available in the Book Bank). Total budget of the library was Rs. 11,90,000/- and books purchased in the

academic year were 616. Library enrolled for N-list (INFLIBNET) Programme during the year where user can access e-journals and e-Books.

### **Faculty Strength**

Permanent -72

Ad-hoc - 57

### **Financial Allocation and utilization**

Grant sanctioned - Rs. 34,44,60,000.00/-

Grant utilized - Rs. 40,94,51,983.00/-

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## **KALINDI COLLEGE**

### **Major activities and achievements**

Kalindi's motto 'ज्ञानंशीलंधर्मश्चैवभूषणं' (Gyānam Shīlam Dharmashchaiv Bhushanam) conveys the three virtues of human life: knowledge, modesty and sense of duty. College aims to provide quality education and all-round development to its over 3622 regular students, approximately 1257 non-collegiate students and about 2500 students enrolled under the School of Open Learning Centre. It is a matter of pride that the college secured 89<sup>th</sup> rank in NIRF India rankings 2019 amid top 100 colleges and 4 thousand colleges all over India. College is also conferred with "India's Education Excellence Award 2018" by Berkshire Media LLC, USA. In the current academic year 170 papers were presented in conferences and five books were published by the faculty members. More than 400 students scored 'O' grade in several papers. Research interest was generated among students by involving them in several in-house research projects. Experts were also invited for the smooth functioning of these projects. Workshop entitled, "*Skill Enhancement at Institutions of Higher Learning: Training Today for Tomorrow*" for faculty development and training of administrative, laboratory and library staff, was organized by IQAC and was supported by NAAC and UGC.

### **Honours\Distinctions**

Dr. Anula Maurya, Principal, conferred with "Global Leaders Award 2019" for the Best Women Personality of the year, on 14 to 16 March 2019 in Dubai, UAE by Bizox (Global Leader Award).

Dr. Anula Maurya, Principal, conferred with "Indo – Nepal Ekta Award" for immense dedication and work towards National Integration by Indo-Nepal Samrasta Organization on 25 November 2018.

Dr. Anula Maurya, Principal, conferred with "Glory of India Award" for distinct identity-socially and economically by virtue of excellence by Dy. Prime Minister of Thailand in association with India International Friendship Society on 4 May 2018.

Dr. Ruchi Tyagi received 'Excellence Award for in-service teachers (category of colleges)' recognizing "the outstanding service and contribution to academic activities" by University of Delhi on the occasion of the 96<sup>th</sup> Foundation Day on 1 May 2018.

Dr. Meena Charanda received "Award for college lecturer 2018-19" from Directorate of Education, Government of Delhi.

### **Students with Distinctions**

Nidhi Singh of B.A (Hons) Journalism secured I rank in University Exams.

## Publications

Maurya, A. Kaushik, R. (2019). *संतुलित जीवन की कला*. Vidyanidhi Prakashan, Delhi. ISBN 978-93-85539-49-7

Mangla, S. (2018) Inclusive Governance and Human Rights, *Bloomsbury Publication, New Delhi*, ISBN:978-93-88038-99-7.

Mangla, S. (2018) Dr. B. R. Ambedkar on Women's Rights and Gender Equality, *Samyak Prakashan, Delhi*, ISBN: 978-93-88487-62-7.

Narzary, M. (2018). Democracy and role of Civil Society in Egypt, NAM Today International Monthly for the New Age Mind. *Current Affairs Research Journal*, ISSN 2347-3193 Regd. No. RN/No-45896/87, Vol. LVXXIX, No. 06.

Singh, R. (2018) Women Entrepreneurs: The True Motivators of Entrepreneurship, Research Discourse. *An International Refereed Research Journal*, VIII (XXVI): 84-86.

Das, C. (2018) The War and its Afterlife in Bangladesh: Of Secularism, Faith and Estranged Siblings. Eds. Khurshed Alam. *Bangladesh: Economic, Social and Political Issues*. New York: Nova Science Publishers.

Mangla, S. (2018) Indian Education System: The Gravest Concern is Employability Gap. *International Journal of Business and Management Invention*. ISSN(Online) – 2319-8028, ISSN(Print)-2319-801X: 7(8):89-93.

Giri, N. (2018). Governance and Development in India: A Critique of The Nehruvian Model. *The Legacy of Nehru: Appraisal and Analysis*, ed., by Lancy Lobo and Jayesh Shah, Manohar Publishers: New Delhi, pp.169-181

Kapinder, Tarkeshwar, Singh, A. K. (2018). Effect of light intensity and nutritional value of food resources on flight response of adult parasitoid, *Cotesia plutellae* (Kurdjumov) (Hymenoptera: Braconidae). *BioRxiv* 444224; (online) doi: <https://doi.org/10.1101/444224>

## Journals

The yearly academic Journal published by Kalindi College in 2018-19 (18<sup>th</sup> issue).

Number of college teachers serving as Editor(s)/ Members of Editorial Board

Editor - Dr. Chaity Das; Co-Editor-Dr. Punita Verma, Members - Dr. Raksha Geeta, Dr. Vishwajeet Vidyalankar, Dr. Reena Jain, Dr. Shipra Gupta, Dr. Triranjita Srivastava, Dr. Tanu Sharma

## Research Projects

Inter University accelerator center (IUAC) sponsored project entitled, "X-Ray Spectroscopy of Highly Charged Slow Ions with Atoms and Solids" of Dr. Punita Verma.

Inter University accelerator center (IUAC) sponsored project entitled, "Molecular orbital approach to the inference of x-ray measurements at small inter atomic distances" of Dr. Punita Verma. Rs. 6,43,000/-.

DST-SERB project entitled, "Functional interaction between vasotocin and corticosteroids in catfish *Heteropneustes fossilis*" of Dr. Varsha Singh. Rs. 23, 07,201/-

TERI School of Advanced Studies sponsored project entitled, "Study of microbial diversity in overburdened and remediated soil of coal mines" of Dr. Shanuja Beri. SAS agreed to provide all consumables and certifications to 25 students for their participation.

Department of Biotechnology sponsored project entitled, "Evaluation of health improvement in Fish challenged with bacteria and fed on supplemented feed" of Dr. K. Vandana Rani. Rs. 8 lakhs.



### **Seminars Organized**

Dr. B.R Ambedkar study circle organized a National Conclave on Dr. B.R Ambedkar's futuristic vision and realistic actions on 10 April 2019.

International Conference entitled, "Changing Environment: Understanding the emerging Challenges and their Management Strategies" was organized at the Conference Centre, University of Delhi, from 10 to 12 April 2019.

Two Days students' seminar was organized by the Department of Political Science on 14 and 15 March 2019. Topic of the seminar included Parties, Elections and Political Process in India. Seminar brought together 11 post graduate students and 7 alumni from DU, JNU, NCWEB, Maharshi Dayanand University, Rohtak, and Mumbai Law College.

National Conference entitled, "Urban Environmental Sustainability" was organized in collaboration with Mahatma Gandhi Institute for Combating Climatic Challenges (MGICCC), a venture of Govt. of National Capital Territory Delhi, on 7 and 8 February 2019.

Seminar entitled, "Human rights of the marginalized: Hands together towards" was organized by Department of Journalism on 9 and 10 October 2018.

### **Conferences Presentations**

Rakhee Chauhan presented a paper entitled "Women of South Africa in Power: A Society in Transformation" in a three day International Conference organized by Department of African Studies, University of Delhi from 6 to 8 February 2019.

R. Tyagi presented a paper entitled "Idea of Foreign Policy in Indian Political Thought" in the ICSSR sponsored National Seminar on 'Indic Thought: Exploring the Indianness' organized by the Department of Political Science, Goa University on 28 and 29 January 2019.

Manila Narzary presented a paper entitled "Shrimanta Shankadev and his Philosophy" in a National Workshop on 'Indic Thought' organized by Developing Countries Research Centre (DCRC), University of Delhi and Indian Council of Social Science Research (ICSSR-Northern Regional Centre), New Delhi on 24 and 25 January 2019.

P. Verma presented a paper entitled "Multiple Ionization in Au by 120 and 200 MeV Ag-ions impact" at the 13<sup>th</sup> Asian International seminar on 'Atomic and Molecular Physics' organized by Tata Institute of Fundamental Research from 3 to 8 December 2018.

Tarkeshwar Gautam presented a paper entitled "Biodiversity conservation through Tagfalter: Role of Institution and Youth" in the International Conference on 'Advances in Biological and Environmental Research for Human welfare' organized by Department of Zoology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh from 16 to 18 November 2018,

Sunita Mangla presented a paper entitled "Bhartiya Media Mein Stree: Chunotiyani Aur Uplabdhiyan" at Hindu College, University of Delhi, on 14 November 2018.

Meena Charanda presented a paper entitled "Bharat Ke Sandarbh main Ek Rashtra Ek Chunav: Paripekshya aur Chunotiya" at a conference organized by Rashtrisant Tukadoji Maharaj Nagpur University, Nagpur on 5 and 6 October 2018.

Rini Pundhir presented a paper entitled "The Evolution of India's Composite Food Culture in Context of Medieval Uttar Pradesh" in a National Seminar on 'The Evolution of Composite Culture in Medieval India' organized by Department of History, Faculty of Social Sciences, Banaras Hindu University during 14 and 15 September 2018.

Nivedita Giri presented a paper entitled “Promoting Gender Equity through Political Mobilization: A Study of South Asian Women” during the IPSA-AISP organized 25<sup>th</sup> World Congress of Political Science held in Brisbane, Australia from 21 to 25 July 2018.

#### **National\International (MoUs)signed**

Memorandum of understanding (MOU) signed 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.

Memorandum of understanding (MOU) signed with TERI School of Advanced Studies (TERI SAS) for the year 2018-19.

Memorandum of Understanding (MOU) was signed on 10 September 2018 by IQAC, Kalindi College with IQACs of eight other colleges of the University of Delhi

#### **Placement details**

Number of students placed: 11

Number of Companies\Industries coming for campus recruitment: 06

#### **Extension and Outreach Work**

Volunteers of NSS visited ‘Agrasen ki Baoli’ for cleanliness drive on 31 August 2018. In addition they visited some of the slum areas of Anna Nagar, Near ITO, New Delhi where they interacted with couple of people and made them aware about the importance of cleanliness. Kalindi College, A rally and a drive for relief of Kerala flood victims covering the surrounding areas of the college was organized in collaboration with B L Kapoor Hospital and Rajendra Place Metro Station along with Social Responsibility Cell, Students’ Union and NCC. The second segment of the relief program included a collection drive by the NSS volunteers in the most crowded areas of Delhi including Rajouri Garden, Chandni Chowk, Daria Ganj, Tilak Nagar, Janakpuri, Pacific Mall, Subash Nagar, Tank Road, Patel Nagar, Connaught Place, Paharganj and Karol Bagh on 31 August and 1 September 2018.

#### **Library Development**

The library resources have been enhanced during the year 2018-19 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 103 magazines/journals and 16 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 is also provided by the library.

#### **Faculty Strength**

Total Permanent: 80

Total Ad-hoc: 81

#### **Financial Allocation and Utilization**

Grant sanctioned - Rs. 3139.26 lakhs

Grant utilized: - Rs. 4348.48 lakhs

#### **Any other significant information**

Faculty Development Programme on the newly introduced Discipline Centered Elective optional paper in the B.A.(Hons) English III year syllabus entitled ‘Travel Writing’ was organized by the English

Department, Kalindi College, University of Delhi in association with the IQAC on 6 April 2019. With an aim to counter the propaganda of fake news, the Department of Journalism, Kalindi College, University of Delhi, organized a two-day “All India Media Conclave” for youth, in the college on 12 and 13 February, 2019. National Voters’ Day was celebrated on 25 January 2019 with all the students, teachers and office staff taking pledge for voting in every election fearlessly and without being influenced by considerations of religion, race, caste, community, language or any inducement NSS unit celebrated surgical strike day on 29 September 2018 by paying tribute to our brave Indian army men.

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## **KAMALA NEHRU COLLEGE**

### **Major Activities and Achievements**

College organized its first ‘Open House’ for applicants and their parents during the admission season. A bi-lingual prospectus was released in the month of July 2018 and a new website was launched simultaneously. The website provides exhaustive information about college is mobile friendly. ‘TEDxKNC: Find or Make’ an event held under the license from TED, US was organized on 19 March 2018. Shining Network: the youth empowering and value creating society of college collaborated with the Society for Philosophers in America (SOPHIA) for discourses on public philosophy. Seminars, workshops and talks were a routine feature of the KNC intellectual climate group. Green Beans: the very active Environment Club of KNC organized lectures on pertinent topics like: “Rainwater Harvesting and Water Footprints” and “Electronic Waste Generation and Management in India” on the 23 March 2018.

### **Honours/Distinctions**

Babita Sharma and Divya Mishra were honoured to be part of National Drill team that walked at Rajpath on 26 January 2018.

Students of NCC bought laurels to the college by winning 9 awards at the University level, 1 award at the state level and 4 awards at the National level.

Several students were awarded at the State/ University level, National level and at the inter-college level.

In Co-curricular activities, students won 29 awards at the State/University level, 1 award at the National level and 22 awards at the inter-college level.

In Cultural activities, students won 86 awards at the State/University level and 13 awards at the National level.

### **Publications**

Agrawal, A., Gupta, S. (2018). Behavioural Impact of 360 Degree Feedback on the Employees in an Organisation. *Aayushi International Interdisciplinary Research Journal*. 5(III): 341-345. ISSN: 2349-638X

Agrawal, A., Salahuddin, M. (2018). Interest free banking system: A solution for Humanity. *Asian Journal of Management, Applications and Research*. 8(1). pp. 443-456. ISSN: 2230-8660

Bhalla, P. (2018). The Geomorphic Regionalization of Delhi and its Surrounding. *Akademios*. XII: 144-154. ISSN: 2231-0584.

Bharati, S. (2018). A new interval-valued intuitionistic fuzzy numbers: Ranking methodology and application. *New Mathematics and Natural Computation World Scientific*. 14 (3): 363-381.

Bharti, S. 2018). StriMuktiKePrashnAur Alma-Kabootri. *Akademios*. XII: 94-201. ISSN: 2231-0584.

Gautam, P. (2018). A Concise History of the Modern Calculus in Mathematics. *Akademios*. XII. ISSN: 2231-0584.

Kaur, G. (2018). Kāyānupassanā: Examining Mindfulness of the Body in Early Buddhism. *Gauhati University Journal of Philosophy*. II(I): 37-54. ISSN: 2456-3285.

Mishra, A. (2018). Phosphorus: a limiting nutrient with limited resource. *Akados*. XII: 34-46. ISSN: 2231-0584.

Nagar, I. (2018). Self-Regulation for Sustaining Happiness and Well-being: An Indian Perspective. *Psychological Studies*. 63(2): 181-186. ISSN: 0033-2968.

Prajapati, H. R. (2018). Intensive Farming, Land Degradation and Food Security Issues in India. *Akados*. XII: 313-30.

### **Journals**

Published by the College: The academic journal of college - *Akados* has its webpage linked to the college's website.

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: Two faculty members

### **Research Projects**

Indian Council of Social Science Research (ICSSR) sponsored Post-Doctoral Research Fellowship of Dr. Archana Prasad from 2016-18. Amount of Rs. 9 lakhs

Indian Council of Social Science Research (ICSSR) sponsored project of Dr. Urna Sarkar sanctioned in January 2018. Amount Rs. 6.5 lakhs.

Indian Council of Social Science Research (ICSSR) sponsored project of Dr. Sharmistha Mallick sanctioned in January 2018. Amount Rs. 6.5 lakhs

### **Seminars Organized**

Seminar entitled, "Risk Management" was organized in collaboration with the Global Risk Management Institute on 23rd August 2018.

### **Conferences/Workshops Organized**

Workshop entitled, "Sanskrit Sambhashan" was organized by the Sanskrit department in collaboration with Sanskrit Academy, Delhi for promoting communication skills in Sanskrit, especially for the benefit of Sanskrit Honours students from 20 to 31 August 2018.

Workshop entitled, "Academic Reading, Writing and Reasoning in Sociology" was organized along with eminent academics like Prof. Maitrayee Chaudhari from JNU, Prof. Satish Deshpande from DSE and Prof. Saavyasachi from JMI on 19 September 2018.

A National Conference entitled, "Environmental Crisis, Ethics and Social Justice: A Critical perspective" was organized by the Department of Sociology on 4 and 5 April 2019.

### **Seminar/Conference Presentations**

Kalpna Bhakuni presented a paper entitled, "Ecosystems services of Nainital Lake as a tourism enterprise" during an international conference organized by the American Association of Geographers at Washington DC from 3 to 7 April 2019.

Alka Agrawal presented a paper entitled, "Emerging Issues of Indian Financial System: A critical view on its sustainability" in the Conference of Business, Economics & Sustainable Development (CBESD 2018) organized by TERI School of Advanced Studies, New Delhi, on 22 and 23 February 2018.

Rupali Khanna presented a paper entitled, "Assessing Energy Poverty and Identifying Micro-level solutions" during a workshop on 'Working Group on Energy Poverty in ASEAN, India and

China Energy poverty' held at Sukhumvit, Bangkok, Thailand on 10 April 2018.

Sadhna Agrawal presented a paper entitled, "Hindi Kavita Mein Rashtiyata: Media Aur Raashtrvaad" in a conference organized by PGDAV college (evening) and Bhartiya Jansanchaar Sansthaan on 26 and 27 April 2018.

Shobhana Warriar presented a paper entitled, "Colonialism to the Making of a Nation" in an International Summer School organized by Ministry of External Affairs, Nehru Memorial Library on 27 June 2018.

Geetesh Nirban was invited to give a plenary talk entitled, "Moral, Social and Environmental Perspectives in Pilgrimage: Ethical Interpretation of the 'Tour of the Sacred Fords' in Mahābhārata" during the post centenary diamond jubilee International Seminar on 'Pilgrimages and Social Capital: Experiences in Bonding and Bridging?' organized by Department of Christian Studies and Vaishnavism, University of Madras on 13 and 14 March 2018.

Ramesh presented a paper entitled, "Media and Language: The Impact of English on Kannada Language Press" during a seminar 'The role of mother tongues in Nation Building' organized by Kannada Language Chair (CIL/ JNU) and Shodhsamvad/Research Forum, School of Language, Literature and Culture Studies, Jawaharlal Nehru University, New Delhi on 21 February 2018.

Ritambhara Malaviya presented a paper entitled, "The Idea of Peace Education and Tagore" during a conference on 'Revisiting Peace and Security in Contemporary World: Interventions from India' organized by University of Delhi on 11 May 2018.

Maitreyee Kumari presented a paper entitled, "Shardulshakatam: EkDrishti 49th AIOC, Somnath" during the seminar on 'Modern Sanskrit Literature' organized by Shree Somnath Sanskrit University, Veraval (Gujarat) from 18 to 20 May 2018.

#### **National/International MoUs Signed**

Commerce department has signed an MOU with ICICI & NISM for introducing a certified add-on course on "Equity Trading & Investments".

#### **Other Inter-Institutional Collaboration**

In response to complaints of sexual harassment faced by students on the DTC bus route 544, Internal Complaints Committee in collaboration with Gargi College and Jeejabai Institute of Technology organized several meetings with DTC officials, SHO, HausKhas to address the concerns of students.

#### **Placement Details**

Number of students placed: 27

Number of companies visited for campus recruitment: 5

#### **Extension and Outreach Activities**

NCC unit in collaboration with 4DGBN organized a four-day yoga camp from the 18 to 21 June 2018, to commemorate the 4th International Yoga Day on 21<sup>st</sup> June, wherein cadets of Gargi College, LSR, Dyal Singh College, Deshbandhu College, and various school students participated. JUO Divya Mishra and SUO Babita Sharma were selected for the Republic Day camp and were part of NCC contingent marching on Rajpath on 26 January 2018. NCC drill and guard teams made their presence felt on University of Delhi campus by securing topmost positions. Vegan bags provided by Federation of Indian Animal Protection & Organization (FAIPO) on 24 October 2018 to spread awareness among the youngsters for protection of animals. Vision Eye Centre, New Delhi was invited for a free eye check-up camp on the occasion of Diwali on 2 November 2018 in the college premises.

## **Library Development**

Library is fully automated (through NETTLIB Software) for library work. It is connected with one server and thirteen clients of Local Area Network and have installed bar-coded I.D. Two computers are equipped with internet facility. Library has a separate section for audio-visual, gender studies, french books section and Gandhian studies. The library has membership of DELNET for inter-library loan and membership of INFLIBNET for searching e-journals. Library conducted orientation sessions for the new students.

## **Faculty Strength**

Total permanent - 92

Total ad-hoc - 64

## **Financial Allocation and Utilization**

Grant sanctioned - Rs. 40,99,13,000/-

Grant Utilized - Rs. 38,53,42,000/-

## **Other Significant Information**

Amongst the projects in the pipeline, the process of extending on-line banking (e-collect) to students for payment of fees/late fees etc., is under process with the State Bank of India. An ATM kiosk installation in the college premises is also underway for the benefit of staff and students.

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## **KESHAV MAHAVIDYALAYA**

### **Major Activities and Achievements**

During 2018-19, the college upgraded to 75<sup>th</sup> rank in NIRF ranking. Diploma courses in german and french were introduced. A power seminar on 'Employability skills for the future' and a workshop on 'Digital literacy' in collaboration with ICT Academy were organized under the aegis of IQAC. The Entrepreneurship Development Program Cell (EDPC) organised an interactive session with eminent speakers such as Dr. S. Lakshmi Devi, Founder Principal, Shaheed Rajguru College of Applied Sciences and Prof. Palhan, Founder Director, Great Lakes Institute of Management. ANUBHAV, a new cell mainly focusing on internship related activities, was initiated. Arthvyawastha - the first edition of finance convention organized an important session on 'Current scenario of Indian financial system'. A compost developing machine was installed in the college campus to manage kitchen and garden waste. Keshav Mahavidyalaya Students Union (KMVSU) was formed with proper elections which were held for the first time. Under the aegis of SPIC MACAY, the college organized performances by Shubha Mudgal and Padma Shri Dr. Shovana Narayan.

### **Honours/Distinction**

Dr. Pardeep Kumar was elected member of Academic Council, University of Delhi, for a period of two years.

### **Students with Distinctions**

Ashvika A. Singh, Kamakshi Joshi and Priya Ratti, of B.A. (Hons) Psychology presented a paper at the conference organized by Department of Mental Health Education, at NIMHANS, Bangalore, under the supervision of Dr. Harpreet Bhatia and Dr. Shailja Rana,

Rajiv of B.Sc. (Hons) Electronics and Mayan Kumar Singh of B.M.S presented a paper at National Paper Presentation Competition at Daulat Ram College, University of Delhi and secured second position under the supervision of Dr. Shailja Rana and Dr. Harpreet Bhatia.

Kanishk Kalra of B.A. (Hons) Psychology and Prasun Prasad Kant of B.Sc.(Gen) Mathematical Science received an award of Rs. 10,000/- each from Directorate of Higher Education, Govt. of NCT of Delhi.

Nitin Sharma and Rohit Raina admitted in college received Prime Minister's Special Scholarship Scheme for Students belonging to Jammu and Kashmir.

### **Publications**

Bansal, A., Kumar, A., Sharma, J. (2018) Hardy's Theorem for Gabor transform. *Journal of the Australian Mathematical Society*. 106(2): 143-159.

Bansal, S., Kaushik, S., Chopra, M., Bhatia, H., Rana, S. (2018) Assessing Stereotypes Related to Skin Tone. *International Journal of Indian Psychology*. 6(3): 134-140.

Khamesian, M., Ayouz, M., Singh, J., Kokoouline, V. (2018) Cross Sections and Rate Coefficients for Rotational Excitation of HeH<sup>+</sup> Molecule by Electron Impact. *Atoms, MDPI*, 6(3): 49.

Sachdeva, A., Singh, A. K. (2018) Work Life Conflict and its Impact on Work Life Balance and Subjective Well Being of Doctors in Healthcare Sector. *Ramanujan International Journal of Business and Research*, 3: 1-15.

Kala, K., Goyal, S., Rana, S., Bhatia, H. (2018) Attitude Change Towards Homosexuality Post Intervention. *International Journal of Indian Psychology*, 6(3): 27-34.

Mendiratta, A. Mendiratta, M. (2018). Association of Discretionary Accruals and Big 4 Client Firms: Evidence from India. *MUDRA- Journal of Finance and Accounting*, 5(1): 48-58.

Ganesh, M. Sharma, D. (2018) Mediation Role of Motivation In Association Between Emotional Intelligence and Leadership at Workplace. *IOSR Journal of Humanities and Social Science (IOSR-JHSS)*, 23(8), Ver. 3, 7-16.

Kumar, S., Kaur, J., Verma, A., Mukesh, Kumar, A., and Dominic, S. (2018) Influence of Polyether Chain on The Non-Covalent Interactions And Stability Of The Conformers Of Calix [4] Crown Ethers. *J. Incl. Phenom. Macrocycl. Chem.* 91(1-2): 81-93.

Jindal, V., Bedi, P. (2019) Parameter Tuning In MACO For Actual Road Conditions. *Wireless Personal Communications. WPC, Springer Science + Business Media, LLC, part of Springer, Nature*.

Singh, D., S. D. Ram (2018) Theory of Reliability: A Mathematical Characteristics. *International Journal of Pure and Applied Mathematics*, 118(22), 1425-1434.

### **Journals/Magazines published by college:**

Ninth edition of Genesis: Department of Commerce magazine

Third edition of e-magazine e-Blitzine: Department of Computer Science.

Perspective: Department of Management Studies

Psynopsis: Department of Psychology

Newsletter Nivesh Express: Nivesh Cell

### **Seminars Organized**

One-day Seminar on Robotics and Arduino by Dr. Praveen Pandey, Maharaja Agrasen College, University of Delhi.

Metamorphosis Society of the Department of Management Studies organised Annual Corporate Seminar, COGNIZANCE19 on the theme 'New India @75'. The invited speakers were Dr. S.P. Sharma, Chief

Economist, PHDCCI, Prof. Saumen Chattopadhyay, Chairperson, Zakir Hussain Centre for Educational Studies, JNU and Ms. Ambika Jain, Executive Director, Vigilance Accounts, Indian Railways.

Seminar on the topic 'Campus to Corporate' by Mr. Neeraj Singh Rathore, Certified International Business Coach.

### **Workshops Organised**

Workshop entitled, "GitHub" was organized wherein our college student Mohit Uniyal demonstrated the use of GIT HUB as an online repository for storing data by BLITZ, the Computer Science Society.

Workshop entitled, "Internet of Things" by Prof. D.P. Vidyarthi, School of Computer and System Science, JNU. A hands-on session was conducted on the same topic by college faculty member Mr. Anand.

Workshop entitled, "Digital Literacy" was organized in collaboration with ICT Academy and under the aegis of IQAC.

### **Conferences Presentations**

Anju Arora presented a paper entitled, "The Credit Risk Governance Framework in Emerging Economies: Empirical Evidence from Indian Commercial Banks" during the 9<sup>th</sup> International conference on governance, fraud and social responsibility organized by National Law University, New Delhi, India on 24 October 2018.

Anita Mendiratta presented a paper entitled, "Skill Development- An Explanation" during the two-day National workshop on 'Skill Development to Build a Clean India' organized by Deshbandhu College in collaboration with Oil and Natural Gas Corporation Ltd., New Delhi. In the year 2018.

Ashish Bansal presented a paper entitled, "Hardys Theorem for Gabor Transform" during the 33<sup>rd</sup> Annual Conference of the Ramanujan Mathematical Society, Department of Mathematics, University of Delhi held from 1 to 3 June 2018.

Daisy Sharma Kapoor presented a paper entitled, "Women as Leaders: A Systematic Review Of Glass Ceiling and Organisational Development" at the Annual Conference on Organisation Development, Change and Leadership (ODCL) organized by Tata Institute of Social Sciences, Mumbai on 29 and 30 August 2018.

H. Sharma presented a paper entitled, "A Comparative Study of Communication Skill, Interpersonal Relationships Skill and Coping with Stress Skill among Students of Private & Government Schools of Delhi: at the 5<sup>th</sup> International organized by National Association of Psychological Science (NAPS) and 7<sup>th</sup> Indian Psychological Science Congress (IPSC) organized by Department of Psychology, Punjab University, Chandigarh in the year 2018.

Harpreet Bhatia presented a paper entitled, "Combating Stigma of Mental Illness using Video Intervention: An Experimental Study" at second National Conference on 'Mental Health Education, MHECON2019 - Reporting Mental Health in Media: Words Matter' organized by Department of Mental Health Education, NIMHANS, Bangalore on 23 February 2019.

Priti Sehgal presented a paper entitled, "A Non-deterministic Approach to Mitigate Replay Attack and Database Attack Simultaneously on Iris Recognition System" during an International Conference on 'Intelligent Human Computer Interaction' organized by Springer in the year 2018.

Ritu Arora presented a paper entitled, "Bilevel Transportation Problem with Multi-choice Parameters" during the 33<sup>rd</sup> Annual Conference of the Ramanujan Mathematical Society, Department of Mathematics, University of Delhi.

Vinita Jindal presented a paper entitled, "CUDA Accelerated HAPO (C-HAPO) Algorithm ForFast Responses in Vehicular Ad-Hoc Networks" at the 9th International Conference on 'Quality, Reliability,



Infocom Technology And Business Operations (Trends and Future Directions)- (ICQRITBO-2018)' organized by Springer, Delhi, India from 27 to 29 December 2018.

**Placement Details:**

Number of students placed: 61

Number of companies visiting for campus recruitment: 07

**Extension and Outreach Activities:**

Students organised books, shoes and clothes donation drives under the aegis of Rotract Club. NSS unit of the college organised several activities like International Yoga Day, Swachhta Pakhwara, Rashtriya Ekta Divas, Cleanliness Drives, Voter Awareness Campaign, Self-Defence Program, Road Safety Campaign, to name a few. The Rotract Club in collaboration with NSS unit organized 'Abhivritti 2019', a camp for creating social awareness on thalassemia and breast cancer. A mobile medical van equipped was installed in the campus with Mammography scanning machine which enabled staff members to check for any undue signs of cancer. Self defence training for girls was undertaken taking help of instructors from Delhi Police. The students of Enactus Cell successfully completed Project Ehsaas and undertook three more projects, namely, Project Pehel, Project Sahaayta, and Project Oral Hygiene.

**Library Development**

Library has various sections consisting of around 27,498 books. It has a rich collection of text books, reference materials and encyclopedias of various fields. Thirty-five (35) magazines and eighteen (18) newspapers are subscribed by the library for the readers. Library has more than 760 CDs and DVDs which are issued to various departments of the college. Besides, it also provides facility of accessing about thirty thousand (30,000) e-journals and research articles provided by Delhi University Library System (DULS) through internet to staff members and students. Library provides various services to its users like Circulation Service, Technical Services, Reservation Service, Internet Service etc. The library has a separate Internet Lab for students and faculty. For the security purpose there are 16 CCTV Cameras in the college library. The library also has Braille Materials for visually impaired users.

**Faculty Strength**

Total sanctioned faculty: 100

**Financial Allocation and Utilization (2018-19)**

Grant Sanction: Rs. 15,76,00,000 /-

Grant Utilized : Rs. 21,77,55,245/-

**Other Significant Information**

College is a recognized centre for Non-Collegiate Women's Education Board (NCWEB), University of Delhi, with more than 1100 students and 35 faculty members. An interactive session of college faculty members with our Honble Deputy Chief Minister, Govt. of NCT, Delhi Sh. Manish Sisodia ji was organized in October 2018 in order to discuss challenging issues of our education system. IQAC has taken an initiative to get the institutional membership of ICT Academy, which is a Govt. of India initiative and a non-profit society that endeavours to train the teachers of higher education, students and other staff members. College also registered itself on NSP 2.0 portal and District portal for student scholarships. In order to promote gender equality in our institution and as per UGC directives, the college has been appointing Gender Champions since 2017-18. Department of Physical Education organised an Annual Sports Day during the month of February 2018.

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## KIRORI MAL COLLEGE

### Major Activities and Achievements

College upgraded its NIRF ranking this academic year with securing 18<sup>th</sup> rank. A UGC sponsored grant under the National Skills Qualifications Framework was a distinctive feature for the year. A six month certificate course on Entrepreneurship and Start-Up was also initiated. College campus was made a plastic free zone. The year has also been a significant for organizing academic activities like Oceanvale Workshop, which was the first of its kind across all the colleges of University of Delhia and launched in July 2018. A three-day International Conference entitled, "Olympic and Indian Values in Global Context" was held in September 2018. A two-day Dalit Festival was held in the college premises in the month of February 2019. A two-day International Conference entitled, "Politics, Power and Spectacle in Shakespeare" was organized in collaboration with the Shakespeare Society of India and the Department of English, University of Delhi in March 2019.

### Honours/Distinctions

Dr. Reena Saxena awarded with Fellow Royal Society of Chemistry (FRSC), London, UK during the month of October 2018.

Dr. Anita Kamra Verma awarded with "SBMLS Life Time Achievement Award" for the outstanding contribution in Nanotechnology in BIOMEDCON 2018.

Dr. Seema Mehra Parihar awarded with an 'ANNUAL AWARD 2018' on 15 March 2019 during IIRS Academia Meet, 2019 (IAM-2019) at Indian Institute of Remote Sensing (IIRS), Indian Space Research Organisation (ISRO), India .

Dr. Seema Joshi awarded with "Shreshth" award i.e. Distinguished Teachers Award 2018, on Teacher's Day at India Habitat Centre by the Association of National Exchanges Members of India (ANMI).

Dr. Pragya conferred with 'Mahendra Swarn Sahitya Samman Pratham Puraskaar' which was presented by the novelist Shivmurti for the collection of stories 'Takseem' by Professor Mahendra Pratap Smriti Foundation at Lucknow on 20 January 2019.

### Students with Distinctions

Total of 41 students of various departments of the college were awarded with Academic awards in the academic year of 2018-19 for securing top/first three positions.

Ayush Negi and Manvinder Singh represented Delhi University in All India Inter University championship for boxing.

Varun Bisht and Jayant Singh represented Delhi University in NZIU championship for football.

Rajat Bidhuri received a Gold Medal for Judo in the "7<sup>th</sup> National Blind Judo Championship" held between 18 and 22 January 2019 at Poorvi Lawn, Gorakhpur Club.

Praveen Rawat received a Bronze medal during the "21<sup>st</sup> USHA National Athletics Championship for the Blind" held between 10 to 13 December 2018 at Thyagaraj Stadium, New Delhi, for Discus Throw.

### Publications

Kathpalia, R. Bhatla, S.C. (2018). Plant Water Relations, In: Bhatla, S.C. and Lal, M.A. (Eds) Plant Physiology, Development and Metabolism, *Springer*, pp.3-36.

Kumar, V., Chaudhary, A.K., Kumar, P., Sharma, S. (2019) Nanotechnology: Nanomedicine, Nanotoxicity and Future Challenges. *Nanoscience and Nanotechnology-Asia*. 26, 1-15.

Lal, M.A., Kathpalia, R., Sisodia, R., Shakya, R. (2018). Biotic Stress In: Bhatla, S.C. and Lal, M.A., (Eds) Plant Physiology, Development and Metabolism, *Springer*, pp.1029-1095.

Mahtab, A., Rizwanullah, M., Pandey, S., Leekha, A., Rabbani, S.A., Verma, A.K., Aqil, M., Talegaonkar, S. (2019). Quality by design driven development and optimization of teriflunomide loaded nanoliposomes for treatment of rheumatoid arthritis: An *in vitro* and *in vivo* assessments. *Journal of Drug Delivery Science and Technology*. 51: 383-396.

Negi, LM., Talegaonkar, S., Jaggi, M., Verma, AK. (2019). Hyaluronatedimatinib liposomes with hybrid approach to target CD44 and P-gp over expressing MDR cancer: an in-vitro, in-vivo and mechanistic investigation. *Journal of drug targeting* 27 (2), 183-192.

Pandey, S., Mahtab, A. Kumar, V. Ahmad, F. J. Verma, A. K. & Talegaonkar, S. (2019). Design and Development of Bioinspired Calcium phosphate nanoparticles of MTX: Pharmacodynamic and Pharmacokinetic evaluation. *Drug Development and Industrial Pharmacy*, 1–38. doi:10.1080/03639045.2019.1602139.

Pragya, Baal Rangmanch:Sambhavnayan Aur Chunotiyan-Natrang, March 2018, ISSN 0971-0825

Praveen Kuamr Anshuman, (2019). *Aakhar Sovat Naahin*. New Delhi. Diamond Books.

Sharma, N. (2019) Values, Organizational Culture & Organizational Effectiveness in India. *The Indian Journal of Industrial Relations* (Shri Ram Centre for Industrial Relations, Human Resources, Economic & Social Development), Vol-54, Issue-4, ISSN: 0019-5286 .

Saxena, R., Madaan, K., Bansal, S., Saxena, M., Sharma, N. (2018) A Review on Nanomaterialsas Solid Phase Extractants for Determination of Lead in Environmental Samples. *IOSR Journal of Applied Chemistry*, e-ISSN: 2278-5736, 11(9), 27-38.

Tiwari, S., Sharma, N., Saxena, R., (2018) Chromium Speciation in Contaminated Water Samples Using PTFE Beads Packed Minicolumn and FI-FAAS Determination. *Atomic Spectroscopy*. ISSN: 01955373, 39(4), 151- 157.

### **Research Projects**

Department of Biotechnology, Ministry of Science and Technology, project entitled "Small molecule functionalized biopolymeric nanoparticles encapsulating SiRNA and targeted delivery to osteoblasts for managing bone disorders" by Dr. Anita Kamra Verma (2017-2020). Amount of 67.56 lakhs.

ONGC, 2017-2020, entitled, "Impact Evaluation Study of Distribution of Street Lights in Eight states of India under CSR Programme" by Dr. Arun Kumar Tripathi. Amount 8.96 lakhs.

Ministry of Youth Affairs & Sports, Deptt. of Sports, 2016-2017, entitled "Psychological Profile and Performance Sustainability with Omission of Inequality of Indian Athletes: An analytical Study" by Dr. Bena Gupta. Amount of 10.00 lakhs.

University Grants Commission HRD, Govt. of India entitled "UGC-UKIERI Thematic Partnership-2017" by Dr. Roopinder Oberoi. Amount of 35.29 lakhs.

DST-SERB, 2015-2018, entitled "Designation and Strategies of Metal Oxides Nanocrystals for Photocatalytic Water Splitting" by . Amount 31.86 lakhs

### **Conferences Organized**

Workshop entitled "The Autumn Oceanvale" was organized on 20 September 2018.

Department of Zoology organized a Workshop entitled "Advanced Spectroscopy & Dynamic Light Scattering" on 9 October 2018.

### **Seminar/Conference Presentations**

Anita Kamran Verma was invited as a speaker at the “International Conference on Advances in Biological and Environmental Research for Human Welfare; (ICABERHW)-2018” held from 16 to 18 November 2018 at Department of Zoology, DDU University, Gorakhpur.

Reena Saxena presented a paper at the ISNSCON-2019: 6th World Congress on Nanomedical Sciences, Vigyan Bhawan, New Delhi held during January 2019.

Seema Mehra Parihar presented a paper entitled, “Geospatial technologies crucial to the success of Sustainable Development Goals: Some Insights from the Himalayas” in the International Workshop on "Land Use and Land Cover Change and Its Impact on Ecosystem and Sustainable Development in High Asia", coordinated by IGSNRR, Chinese Academy of Sciences, China in collaboration with Institute of Economic Growth, Delhi University, India; ICIMOD; Tribhuvan University\ and Nepal Geographical Society, Nepal held at Institute of Economic Growth, University of Delhi, during 18 and 19 March 2019.

### **Placement Details**

Number of placed students: 66

On-campus companies: 10

Off-campus companies: 65

### **Extension and Outreach Activities**

NSS-Sahyog is an ‘each one-teach one program’ of the college wherein student volunteers teach underprivileged children. NSS-SAHAS is the Women Empowerment cell which aims to empower and uplift underprivileged children. Moreover, the cell wishes to change the stereotyped mindset of the society towards women. NSS-DARPAN, nukkadnatak group of the college, works for the awareness of social issues in the society. NASA Rover - KMC Robo-Physicists participated in NASA's RASC-AL, MOONBUGGY challenge this year and were able to build a rover that could work alongside Astronauts. Students in the SENSATION group, the dance society, won accolades and participated in around fifty institutions (Pan-India). PLAYERS, which is the theatre society, released two plays: Manav kaul's 'chuhai', and 'Karya pragati par hai', a self-scripted street play. DEBSOC- Debating society organized the 39<sup>th</sup> edition of Annual Frank Thakur Das Memorial Parliamentary Debate (FTD/39).

### **Library Development**

Summary of expenditure: Rs. 3,23,573/-; I-Card: Rs. 3,29,751/-; Total Budget: Rs. 15,20,000/-

Number of books that were added this year: 1744; Total books available in the library: 1,50,949; Total book bank collection: 5929; Total: 53 angels, 81 notebook for visually handicapped

### **Faculty Strength**

Permanent - 138

Ad-hoc - 58

### **Financial Allocation and Utilisation**

Grant sanctioned - Rs.6,245.97/- (in lacs)

Grant utilized: - Rs. 5,818.78/- (in lacs)

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## LADY IRWIN COLLEGE

### Major Activities and Achievements

National Centre of Excellence and Advanced Research on Diets (NCEAR-D) was established at the Department of Food and Nutrition, Lady Irwin College, New Delhi in the month of April 2018 and sponsored by UNICEF. This would be a technical assistance resource centre for the Ministry of Health and Family Welfare, Government of India on research and policy formulation for women nutrition. NCEAR-D conducted pretesting of maternal nutrition package at NDMC maternity clinics to test the operational feasibility and challenges of integrating maternal nutrition into routine antenatal care (ANC) and Pradhan Mantri Surakshit Matritva Abhiyan (PMSMA). Centre for 'Women collectives led Social action' was established and an MOU was also signed with Ministry of Rural Development for DAY-NRLM. College was empanelled as a training partner in the FoSTaC (Food Safety Training and Certification) initiative of the Food Safety and Standards Authority of India (FSSAI). College conducted certification courses (three in number in 'Food Safety Supervisor -Basic Catering and Advanced Catering'. The objective of these courses is to improve the employability of students of the college.

### Honours/Distinctions

College was awarded A+ by NAAC in September 2018. NIRF ranked college nationally at 12 in 2018.

Dr. Anupa Siddhu and Dr. Neena Bhatia were given National Recognition by Ministry of WCD at Hotel Ashok , Poshan Maah.

Dr. Anupa Siddhu awarded with "Amifost-2017 Award" at National conference on Food Safety, Nutrition Security and Sustainability on 26 September 2017 by Amity university, Noida and Association of Food Scientists and Technologists (AFSTI), India.

Dr. Pulkit Mathur received NSI prize for Best Oral Presentation (Nutrition Education Category) for the paper entitled, "Gaps and Barriers in Nutrition Knowledge, Attitudes and Practices of School Going Adolescent Girls of Delhi" during the 49<sup>th</sup> National conference of the Nutrition Society of India held at Assam agricultural University, Jorhat, Assam during 2 to 4 November 2017.

Dr. Shreya Arora was awarded with "Anupa Sahi Siddhu Gold Medal" for excellence in doctoral work.

### Students with Distinctions

Ananya Bhardwaj of M.Sc. Fabric and Apparel Science II year was awarded with Sanjam Randhawa Award for the 1<sup>st</sup> position.

Aparjita Sharma of M.Sc. Development Communication and Extension II year was awarded with Durga Deulkar Award for securing 1<sup>st</sup> position.

Ravneet Kaur of B.Ed. Spl.Ed. was awarded with 'Suraj and Santosh Bhasin' and a Gold medal for securing first rank in University.

Sonika Sharma of M.Sc. Human Development and Childhood Studies II year was awarded with Child Development Alumnae Award for securing 1<sup>st</sup> Position.

Yamini Gusain of M.Sc. Food and Nutrition II year was awarded with B. Tara Bai award for securing 1<sup>st</sup> position.

### Publications

Kalra, M. B. (2018). Diversity: Reflections and Insights. *India: Viva Books Private Limited*. ISBN No.: 9789387925205.

Kaur, H., Goel, S. (2018). Electronic waste management and its impact on climate change: a review. In *Socio-Legal Dimensions of Climate Change*, (Eds. Rao et. al.) Bangalore: ENVIS Center on Environmental Law and Policy NLSIU. pp.23-40, ISBN: 978-93-83363-69-8.

Mathur, P. (2018). *Food Safety and Quality Control*. Hyderabad: Orient Black Swan. ISBN 9789352873791.

Upadhyay, R., Dwevedi, R., Krishna, V., Pandey, R. (2018). Management practices to improve productivity and quality in cucurbitaceous crops. IN *introduction to challenges and strategies to improve crop productivity in changing environment.*, New Delhi: Enriched Publications Pvt. Ltd. ISBN No. 978-81-934634-9-9. p 255- 263.

### **Research Projects**

FSSAI sponsored flagship initiative SNF@School (Safe and Nutritious Food @ School). Development of Health cards for Lower and Upper Primary school Children ( 6 to 12 years) studying in Government schools from December to January 2018.

Indian Agricultural Research Institute funded project entitled, “Enhancing nutritional security and gender empowerment” of Division of Agricultural Extension.

Food Processing Industries funded project for "Creation of Infrastructure facilities for Food Technology degree course" to Department of Food and Nutrition, Lady Irwin College. A funding grant of one hundred lakh was given by office of Delhi Government for the same.

### **Seminars Organized**

Organised a Nutrition Awareness activity, sponsored by Protein Foods and Nutrition Development Association of India on 16 March 2018.

An annual event ‘16<sup>th</sup> Sanjam Randhawa Memorial Seminar’ was organized based on the theme “Fashion Merchandising: Emerging Trends” on 22 March 2018.

Organized a seventeenth Raushni Deshpande Memorial Oration on 6 April 2018.

Seminar entitled, “From Tatanagar to Harvard: A Journey in Science” by Sandeep Kumar Singh, Harvard Medical School was organized on 11 April 2018.

Seminar entitled, “Importance of Seed Conservation as a step towards hunger management and biodiversity conservation” by Santosh George of WEPLANT was organized on 18 August 2019.

### **Conference Presentations**

S. Anand presented a paper entitled, “Making Geographic Boundaries Melt: Engaging people in favour of Pro-Social behaviour” during the 1<sup>st</sup> Pan Himalayan Regional Communication Academic Forum held at the University of Electronic Science and Technology of China, Chengdu, China in the year 2018.

Sheetal Chopra presented a paper entitled, “Utilization of Waste Teak Leaves (TECTONA GRANDIS) for Sustainable Dyeing of Selected Natural and Synthetic Fabrics” during the Conference on ‘Design-Waste as Resource’ organized by Design, G. D Goenka University, Sohna Road, Gurgaon in the year 2018.

S. Kapoor presented a paper entitled, “The future of the past: What lies ahead for Indian Culture?” during the Conference on ‘Psychosocial Conundrums in Contemporary India’ held at Lady Shriram College, University of Delhi on 24 February 2018.

R. Mathur presented a paper entitled, “Diverse Methodological Approaches Adopted for Sustenance of Languishing Crafts, Symposium on Capacity Building Measures for Sustaining Textile Heritage of India” at a conference held at Kamaldevi Complex, India International Center, New Delhi on 24 February 2018.

Neena Bhatia chaired a session on “Setting the Scene- on Global Guidance and Recommendations on Maternal Nutrition” at the Regional Conference on ‘STOP STUNTING – The Power of Maternal Nutrition – Scaling Up the nutritional care of women during pregnancy and postpartum in South Asia’ organized by UNICEF, ROSA held at Kathmandu, Nepal from 7 to 9 May 2018.

#### **National/International MoU Signed**

Ongoing MOU with Michigan State University- It is student exchange for semester abroad programme.

MOU signed with Syracuse University, New York State, USA.

MOU with Humboldt University and Portland University (Department of DCE)

#### **Students under exchange programme**

Four inbound students from Michigan State University and Eight from Humboldt State University under the student exchange and Twinning programme (Department. of DCE) successfully completed their programme.

#### **Extension and Outreach Activities**

Students organized an annual event of “Yuva Shakti Mela” in the college premises for adult learners participating in the “Each one enable one” programme. A kiosk was setup in the college with an objective to create awareness among student learners and sensitize them to take adequate actions to improve their quality of life. Series of Mental Health Awareness sessions were conducted by student volunteers in collaboration with Dr Aparna Khanna and Vishwas, an NGO, for students of different colleges and Universities. Volunteers organised one such Mental Health Awareness session at Durga Puja Pandal (Faridabad) with Mind Piper (NGO). Mental Health Awareness Campaign was also organized at AIIMS, New Delhi, on the occasion of International Mental Health Day. A session was held at Dyal Singh College with support from Richmond Fellowship Society and NSS team.

#### **Faculty Strength**

Permanent - 44

Ad-hoc - 72

#### **Other Significant Information**

Number of M.Phil / Ph.D.s awarded -13

One of the oldest exchange programmes going on in the Department of Development Communication and Extension, Lady Irwin College, ‘Summer Twinning Programme with Michigan State University (MSU),’ USA (student exchange programme) was initiated almost two decades ago and ever since, over 128 students and 12 faculty members have crossed borders under this programme. The programme has adopted a twinning approach, wherein students from MSU are placed with post-graduate students of the department and assigned a project. Four students from MSU from diverse areas of specialization visited campus during the summer vacations and were placed with two students from M.Sc. DCE (Final) programme under the “Ganga Project”. Yet another program, namely, Rural Youth Volunteers in India: HSU-LIC Twinning Programme, is supported by US Embassy in India.

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### **LADY SHRI RAM COLLEGE FOR WOMEN**

#### **Major Activities and Achievements**

College has been ranked fifth by NIRF in the year 2019. Survey conducted by WEEK in the year 2018, ranked the college as number one in the country. Foreign delegation at LSR: A delegation from Sciences Po visited the college in December 2018. Visit by International Students: Students from the Faculty of Arts at

Macquarie University, Australia along with Professor Andrew Alter visited college campus for a short-term course conceptualized and transacted by the faculty members in September 2018. An eight day long winter school, organized by the University of Bath, namely, 'Global Responsibilities from the Market to the Individual' was held in December 2018. An Innovation Council, an initiative of MHRD, was formally inaugurated in the college auditorium in the presence of an audience of administrative staff, college faculty and the student body on 8 January 2019. TARINI, a National Geographic production, documenting the first ever circumnavigation of the globe by six women officers of the Indian Navy was screened on the occasion of Women's Day.

### **Honours/Distinctions**

Dr. Suman Sharma, Principal of the college, received 'World Award for Value Education (WAVE)' by the Indian Institute of Ecology and Environment (IIEE) during the 'Spiritual and Value Education (SAVE) Summit-2019' held at India International Centre, New Delhi on 13 March 2019.

Dr. Suman Sharma received a 'Life Time Achievement Award' on the occasion of 'United Nations World Teachers Day Celebrations' coinciding with 'Teacher Education and Research Summit for a Cleaner World' held at India International Centre, New Delhi on 5 October 2018.

Dr. Arvind Kumar was conferred with 'Humanource Award for Academic Excellence 2018' during the 5<sup>th</sup> International HR Summit organized by Dr. Gaur Hari Singhania Institute of Management & Research , Kanpur (UP) on 8 January 2018.

Dr. Shernaz Cama was awarded by the Delhi Government at Vigyan Bhawan Award for Excellence in NGO Sector on 17 December 2018.

Mrs. Rukshana Shroff received 'Excellent Teacher Award' from the Delhi Minorities Commission, Government of NCT of Delhi at Vigyan Bhawan in December 2018.

Dr. Priti Dhawan received an 'Outstanding Achievement Award' by Teachers College, Columbia University, U.S.A, for the Integrative research project 'Psychotherapy in Urban India: Attitudes and Perceived Barriers towards seeking treatment'.

### **Students with Distinctions**

Ananya Bhatt of B.A. History (Hons) III year conferred with Gold Medal in 62<sup>nd</sup> National Shooting Championship 2018.

Charu Shoukeen received a Gold Medal at the Open Delhi State Athletics Tournament in 2018.

Devanshi Rana of B.A. Programme II year received a Gold medal at the Khelo India Youth Games held in Pune in January 2019.

Ishita Sharma bagged 2 silver medals at the 57<sup>th</sup> Delhi States Competition held at Indira Gandhi Stadium in the hoop and the ball event.

Jasmine received a Gold Medal in 4 x 200m Freestyle Relay at All Indian Inter University competition.

### **Publications**

Bansal, P. (2019). Psychology: Debates and Controversies. *Delhi: Sage Publications India Private Limited.*

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.*

Maitra, S., Madan, S., Kandwal, R., Mahajan, P. (2018). Mining authentic student feedback for faculty using Naïve Bayes classifier. *Procedia computer science. 132: 1171-1183.*



Minocha, A. (2018). Alternative Literary Modernities: A Voice from Colonial Punjab. *The Zeitschrift für Anglistik und Amerikanistik / A Quarterly of Language, Literature and Culture*. 66(1): 35-48.

Jha, P. (2018). A Political History of Literature: Vidyapati and the Fifteenth Century, ISBN-13: 978-0199489558, *Oxford University Press, New Delhi*.

Sen, P. (2019). Trolling: Dark Sides of Globalization” in The Globalization Conundrum- Dark Clouds behind the Silver Lining, *Singapore: Springer*, (ISBN 978-981-13-1727-9), pp. 243-256.

Sharma, R. (2018). Media, the State and Marginalisation: Tackling Challenges. UK: *Cambridge Scholars Publishing*. ISBN (10): 1-5275-0883-8; ISBN (13): 978-1-5275-0883-5.

Singh, Monika, Jain, P., Singh, A.P., Stepanov, V.D. (2019) Swayer’s Duality Principle in Grand Lebesgue Spaces” *Mathematische Nachrichten* 292:841-849.

### **Journals**

Journals published by the college – 11; Name of the journals are as follows: Èclat (Department of Mathematics); Ijtihad (Department of History); Sehar (Department of Elementary Education)

Jabberwock (Department of English); Tejas (Department of Sanskrit); Learning Curve (Department of Psychology); Ecolloquial (Department of Economics); Comcorde (Department of Commerce); Sabab (Department of Political Science); Noesis (Department of Philosophy);The Fieldwork Journal (Department of Sociology).

### **Research Projects**

Indian Council of Social Science Research project entitled, “Collaboration between Schools and Institutions of Higher Education: Benefits and Challenges” of Dr. Suman Sharma, Principal from January 2018 to January 2020.

Ministry of Minority Affairs Project entitled, Jiyo Parsi Phase - 2, 2018 Health of the Community Project of Dr. Shernaz Cama and Director UNESCO.

Zubaan Sasakawa Peace Foundation Grant for Young Researchers 2018 sponsored creative project on ‘Northeast and gender, titled *My Grandmother: Exhibit A*’ of Ms. Leki Wangmo Thungon.

Bates Faculty Development Fund, Bates College, funded cross cultural research project on ‘Disability and Inclusion in India- educational policies and practices’ of Ms. Priyanka Padhy.

### **Seminars Organized**

COMQUEST- the Annual Seminar was organized on 4 and 5 October 2018.

Department of Philosophy organized a seminar on ALETHEIA on 11 February 2019.

Department of Political Science organized POLPOURRI 2019 on 15 March 2019.

Department of Sociology held its Annual Academic seminar, ‘KULA 2019’ on the 28 and 29 March 2019.

A lecture entitled, “The Warming War: How Climate Change is Creating Threats to International Peace and Security” was delivered by Dr. Kirsten Davies from Macquarie’s Department of Law on 3 October 2018.

A lecture entitled, “Global responsibilities from the market to the individual” was delivered by Dr. Peter Postle, HOD of Economics, University of Bath on 4 October 2018.

### **Conferences Organized**

International Economic Conference entitled, ‘ECONVISTA-2019’ was organized on 17 and 18 January 2019.

Annual Conference entitled, '*MAAZI-O-MUSTAQBIL*' on the theme 'Deconstructing 'Vernaculars': Complexities of Resistance and Identity Formations' was organized on 8 and 9 March 2019.

Conference entitled, 'JUXTAPOSE' was organized by Department of Journalism on 27 and 28 September 2018.

### **Seminar/Conference Presentations**

Akanksha Narayan Singh presented a paper entitled, "Making of a Domestic Slave : Capture and Bondage in 19<sup>th</sup> Century India" during an International Conference on 'Capture, Bondage and Forced Relocation in Asia 1409-1900', held at Lyon, France on 13 and 14 March 2019.

Arti Minocha presented a paper entitled, "Writing London through Indian Eyes" at Literary London Society Annual Conference titled 'Conflict and Resolution' held at Institute of English Studies, School of Advanced Study, University of London on 28 and 29 June 2018.

Jonathan Koshy Varghese presented a paper entitled, "Suriani: Architecture and Narrative" at Khoja Studies Conference organised by the Florida International University, CEIAS (EHESS) in collaboration with University of Mumbai on 30 and 31 January 2019.

Jyoti Darbari presented a paper entitled, "Performance Evaluation of Sustainable Innovation Practices in Food Supply Chain using Best-Worst Method" during the Ninth Annual International Conference on 'Industrial Engineering and Operations Management' held at Bangkok, Thailand from 5 to 7 March 2019.

Mahesh Kumar presented a paper entitled, "Composition operators which are similar to an isometry on various Banach spaces of Holomorphic Functions on the open unit disc" during the International Conference on 'Recent Advances in Operator Theory and Operator Algebras 2018' held at Indian Statistical Institute, Bangalore from 13 to 19 December 2018.

Priyanka Padhy co-presented a paper entitled, "Inclusion and Disability in India: A Study of Special Programs in Delhi and Beyond" at the annual conference of New England Educational Research Organization (NEERO), New Hampshire, USA held on 24 to 26 April 2019.

Shernaz Cama presented a paper entitled, "Session Historical Perspectives on India-Central Asia 'The Dawn of History: Zoroastrianism, Its Ideas and Impact'" during the 'India and Central Asia: IIC International Research Division & Institute of Indo- Persian Studies meet' held on 3 and 4 December 2018.

Sucheta Nayak presented a paper entitled, "in International Conference on Recent Developments in Theory and Computation & Application of Differential Equations (ICRDTCAD-2019)" held at South Asian University, New Delhi from 21 and 23 January 2019.

### **National/International MoU signed- 9**

Brown University, USA

La Trobe University, Australia

NUS, Singapore

Middlebury, USA

Fukuoka Women's University, Japan

Monash University, Australia

SciencesPo, Paris

University of Bath, UK

UCD Michael Smurfit Graduate Business School, Ireland

With Indian/Foreign Companies/Industry: 3

### **Students under Exchange Programme**

College organized number of exchange programs during the academic year 2018-19. Six students from Middlebury College, Ontario visited college campus in India and two students from National University of Singapore (NUS) also visited the campus. Number of students from college have been nominated for collaborative programmes in Universities abroad. Sharmishtha Singh was nominated for the Sciences Po Programme in Paris while Reshma Ganesh Babu and Muskan Kushawa have been selected for Masters Programme at Macquarie University, Australia. Visakha Chowdhury and Charvee Wadhwa have been nominated for Summer School at NUS while Km. Smiti and Samiksha Purohit have been chosen for the year-long exchange programme at Fukuoka University, Japan.

### **Placement Details**

Number of students placed: 115

Number of companies visited college for placements: 100+

Number of companies visited college for internships: 320

### **Extension and Outreach Activities**

College initiated four Innovative Programmes – (i) Voluntary Agency Placement Programme which provides opportunities for students to make a positive contribution to community development and social welfare; (ii) Dhyana, Society for Consciousness and Awareness, encourages experiential learning; (iii) Women’s Development Cell which engages with women’s issues; and (iv) REACH which is an acronym for Reaffirming Equity, Access, Capacity and Humanism and deals with issues of affirmative and inclusive learning. NSS had many flagship events Kala, Noor and Nexus, highlights of 2018-19 include the establishment of Ikhtiyaar- a new in-house project, hosting valentines for voiceless, road safety workshop and Tihar programme. A self-defence training program was organized by Delhi Police on 19 February 2019.

### **Library Development**

Library with its fully computerized user-friendly data filing system has an invaluable collection of about 111000 books, 6481 bound journals, 1300 reprographic material and about 350 CDs and DVDs. It subscribes to a range of newspapers, national and international journals. The library has a book bank section, which enables students to borrow on a long-term basis. Library is linked to the Delhi University Network, facilitating access to text and material. Library is open from 8.00 am to 8.00 pm and is fully computerized with an error free database of all books and bound journals, created and maintained by the in-house team.

### **Faculty Strength**

Total sanctioned faculty strength - 144

### **Financial Allocation and Utilisation**

Grant sanctioned - Rs. 39,15,69,000/-

Grant utilized - Rs.39,07,74,517/-

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## LAKSHMIBAI COLLEGE

### Major Activities and Achievements

College secured 80<sup>th</sup> rank in NIRF India rankings. 'India Today' ranked Humanities department as 31<sup>st</sup>, Commerce department as 41<sup>st</sup> and the Science department was ranked 59<sup>th</sup>. College increased its infrastructural capacity for students as well as faculty members and non-teaching staff. New toilet blocks were constructed near the installed porta cabin rooms and in sports ground. Construction of new administrative block, faculty rooms and building of 'Viswakarma Kaushal Kendra' are among the other major developments. College recently installed CCTV cameras, computers and new furniture. College is manufacturing sanitary napkins within college premises and these are available to all those who need. Students visited Wazirpur village and provided free education to small children. To widen our role in the field of academia college runs add on courses such as foreign language courses. NSDC skill courses are also offered to young enthusiastic minds. The college also organized one week residential youth motivation camp.

### Honours/Distinctions

College received 'NCC Achievers Award' for being the best college (SW) in University of Delhi on 15 July 2018 by the NCC Alumni Club of Delhi.

Dr. Pratyush Vatsala, Principal, awarded with Rashtrabhasha Gaurav Samman 2018 by Parliamentary Hindi Committee.

Dr. Alka Harneja awarded with 'Meritorious College Lecturer Award', Directorate of Higher Education, Government of NCT Delhi, March 2019.

Dr. Anita Malhotra nominated as national member of Scientific Panel on Cereals, Pulses and Legumes for the second term by FSSAI, Government of India (2018-21) as well as nominated as Professional Expert Member of Academic Council of Sir Vithaldas Thackersey College of Home Science, SNDT University, Mumbai (2018-2021) by the Vice Chancellor.

Dr. Seema Kaushik awarded with 'Dr. G.P. Gautam Award (National Award for Excellence in the Field of Physical Education & Sports)' for being the Best Physical Education Teacher (North India) by the Physical Education Foundation of India (PEFI) on 10 August 2018 at Pragati Maidan, Delhi.

### Students with Distinctions

Khushi secured 1<sup>st</sup> position in Cadet wrestling federation tournament.

Khushi secured 2<sup>nd</sup> position in Khelo India wrestling Tournament.

Nikhat awarded with Gold medal in Senior National Baseball Tournament held at Pune.

Sushmita secured 1<sup>st</sup> position in open Urban National Boxing tournament.

### Publications

Chawla, I. (2019). Determinants of firms' initial decision to invest abroad: An application of "survival" analysis to manufacturing firms in India. *Emerging Finance and Trade*, 55(3): 562-583.

Dua, P., Suri, R. (2018). Exchange Rate And Central Bank Intervention In India: An Empirical Analysis. *The Journal of Developing Areas*. 52(2): 127-143.

Harneja, A. (2018-19). Upliftment of Indian Sports through Corporate Social Responsibility. *Indian Journal of Physical Education Sports Medicine and Exercised Science*, 18(Special Issue (1): 32-35.

Kaul, R., Malhotra, D. A. (2018). *Women and Development: Issues and Challenges*. New Delhi: Elite Publishing House ISBN:9788193599631.

Malhotra, A. (2018). All that a physician should know about gluten-free diet. *Indian Journal of Gastroenterology*, 37(5): 392-401.

Nangia, R. (2019). *Investing in Stock Markets* (Second ed.). New Delhi: Ane Books Pvt. Ltd ISBN:978-93-88264-50-1.

Sharma, N. K., Sharma, L. (2019). Bio-Medical Waste Management: An Overview of Various Technologies. *International Journal of Research and Analytical Reviews*, 6(1): 65-73.

Sharma, L., Kaushik, D. S. (2018-19). Contribution of Indian Companies in Sports Promotion through CSR. *Indian Journal of Physical Education Sports Medicine and Exercise Science*, 18 special issue (3): 201-203.

Sultana, T. (2018). Tension spline technique for the solution of fourth-order parabolic partial differential equation. *Malaya Journal of Matematik*, 6(3): 514-520.

Uma. (2018). Modernization or Marginalization, by choice or by Destiny: A study of Zulu Tribe of South Africa and Bhil Tribe of India . *Indian Journal of African Studies*. XXIII (1 & 2): 110-119.

### **Research Projects**

Indian Council of Medical Research funded project entitled, “Gluten Free Foods” (January 2018) by Principal Investigator, Dr. Govind Makharia of AIIMS, and Co-Investigator Dr. Anita Malhotra of Lakshmibai College. Amount sanctioned Rs. 22 lakhs.

ICSSR funded project entitled “Social Psychology of Marginalization and Exclusion: A Study of Dom and Musahar Communities in Bihar” (2016-18) of Dr. Amrita Shilpi as Principal Investigator. Amount sanctioned Rs.15 lakhs.

ICSSR funded project entitled “Evolution and Implication of Article 370” (2017-2018) of Dr. Amrita Shilpi as Principal Investigator. Amount sanctioned of Rs. 17.5 lakh.

Rajiv Gandhi National Institute of Youth Development, Ministry of Youth Affairs and Sports, funded the project entitled “A Study of Modern Life Obstacles of Youth in Metro Cities of India” (2016- 2018) of Dr. Sunita Arora as Principal Investigator. Amount sanctioned Rs 5, 20,000/-.

### **Seminars Organized**

Organized a seminar entitled, ‘Various aspects of IAS’ by “Unique Shiksha”, on 4 February 2019.

Organized a seminar entitled, ‘Stock Markets’, conducted by Mr. Keshav Kumar, CFA , Director and Lead Trainer at Financial Corridor on 6 February 2019.

A one day Seminar entitled, ‘Organic Food and Organic Textiles for Sustainable Environment’ on 20 February 2019.

The Placement cell of the college organized a one day Seminar on ‘Improving Employability Skill for a better future’ on 24 January 2019.

### **Conferences Organized**

An inter-college students conference entitled, “Speaking of Silence: Speaking From the Silence” was organized on 8 March 2019.

UGC sponsored National conference entitled, “Impact of Sports on the Lifestyle of Youth” was organized on 27 and 28 March 2019.

IQAC and Economics Department in collaboration with QT analytics organized a seven day Faculty Development Programme entitled, “Research Methods and Data Analysis Using SPSS and EVIEWS” from 20 to 26 November 2018.

Workshop entitled, “Creative-writing” was conducted by Dr. Anuradha Marwah Roy of Zakir Hussain College, University of Delhi on 2 November 2018.

### **Seminar/Conference Presentations**

Alka Harneja co-presented a paper entitled “Promoting Gender Equity Through Sports” in a UGC Sponsored National Conference on ‘Impact of Sports on the Lifestyle of Youth’ organized by the college on 27 and 28 March 2019.

Amrita Shilpi delivered a talk “*Kasturba: A Woman of Substance*” and chaired a technical session in two days National seminar on ‘Role and Contribution of Kasturba in Gandhi’s life and philosophy’ which was held at Centre for Gandhian Studies, University of Rajasthan, Jaipur on 22 and 23 February 2019.

Anita Malhotra co-presented a paper entitled “Comparative analysis of cost and nutritional composition of gluten free food with their gluten containing counterparts” at the ‘Asia Pacific Digestive Week Conference’ held at Seoul, Korea from 15 to 18 November 2018.

Ritu Kumar presented a paper entitled “Exports of India to Developed and Developing Economies: An Analysis” at an International conference on ‘Finance & Applied Economics’ organized by Marathwada Mitra Mandal’s IMERT, Pune in association with Gokhale Institute of Politics & Economics, Pune; Murdoch University, Dubai; & The Indian Econometric Society, New Delhi (TIES) from 15 to 17 February 2019.

Sucheta Gauba presented a paper entitled “Trends in Corporate Investment with reference to Metal Industry of India” during the 6th National Conference on ‘Business and Management, 2019: Guiding the way through 21st century’ organized by Shaheed Bhagat Singh College, University of Delhi on 24 and 25 February 2019.

Uma presented paper entitled, “Dissents and arguments in socio-economic participation of women in India” in a Faculty Development Programme on ‘Gender Sensitization and Human Rights’ organized by Satyawati College (Eve.) in association with Women’s Studies and Development Centre of Advanced Study (WSDC), University of Delhi from 15 to 21 October 2018

### **Placement Details**

Number of students placed:10

Number of companies visited for campus recruitment: 20

### **Extension and Outreach Activities**

Students of NSS and NCC received several accolades by participating in activities at national and international levels. College runs NCWEB and IGNOU centres to provide education to students who are unable to secure admission in a regular college. College social responsibility committee in association with ‘Life Care’ organization organized an event entitled, ‘Ek Shaam Shaheedon ke Naam’, a musical tribute to Pulwama Martyrs by a live performance of Pop singer Shael on 21 February 2019. Students paid homage by lighting candles in the memory of the CRPF Jawans who lost their lives in the terrorist attack in Pulwama.

### **Library Development**

Extension of Library Facilities through DELNET and NList

### **Faculty Strength**

Total faculty strength: 155

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 3741.81 lakhs

Grant utilized: Rs. 3668.51 lakhs

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## MAHARAJA AGRASEN COLLEGE

### Major Activities and Achievements

College has been accredited with Grade 'A' by NAAC. In survey of India's Best colleges by India Today and Nielson Company, the college has secured the 18<sup>th</sup> rank in Science Stream, 32<sup>nd</sup> in Arts Stream and 30<sup>th</sup> in Commerce Stream. In National Institutional Ranking Framework conducted by Ministry of Human Resource Development, Govt. of India, the college has been placed at 47<sup>th</sup> position. Today, Maharaja Agrasen College is acknowledged as institute par excellence in higher education. Be it infrastructure or research and innovation, curriculum enrichment or best practices, the institute takes pride in its fast-paced development geared at providing holistic development for both students and faculty. The college is now in its 25<sup>th</sup> year and not only is it an occasion to celebrate but also introspect and plan for the years to come. Several initiatives were taken up this year to mark this special milestone.

### Publications

Aggarwal, M., Arora, S., Gupta, B. (2018). A Textbook on Physical Education & Health Education: Posture, Athletic Care and First Aid. Saarthak Publications, Delhi ISBN 978-93-83914-89-0

Kumar, N. (2019). Federalism in Asia & Africa, beyond India. *Indian Journal of Public Administration*. 65(1), 229-235 <https://doi.org/10.1177/0019556118820390>

Kumar, V., Kumar, A., Saxena, M., Gupta, M. (2018). Study of Gaussian Doped Double Gate Junction Less (GD-DG-JL) Transistor Including Source Drain Depletion Length: Model for Sub-threshold Behaviour, *Superlattices and Microstructure*, 113, 57-70.

Mittal, S. (2018). 'Postmodern Delhi: A View Through some Novels' in *IMPACT: International Journal of Research in Humanities, Arts and Literature*, 6(6), (ISSN: 2347-4564(Print), 2321-8878 (Online).

Prasanna A R, (2019). *Advances in Theoretical and Applied Mathematics*, 14(1), pp. 1–16.

Ram, R. (2019). "The Chemistry of Coordination Complexes & Transition metals" Manakin Press. ISBN No. 9788193877203.

Sachdeva, S. M. (2018). Self Managing Leadership: A New Perspective on Human Resource Management" in *Human Resource Management Changing Perspectives, Strategies and Practices* (ed,Rajnikant Verma), Bharti publications ISBN/ISSN [978-93-866-08-59-8](https://doi.org/10.1007/978-93-866-08-59-8),

Soni, V. (2019). "The Chemistry of Coordination Complexes & Transition metals" Manakin Press. ISBN No. 9788193877203.

Srivastava, P. K. (2018). *Revisiting American Literature (Select Short Stories and Poems)* ISBN: 93-87914-99-2 Macmillan Publishers India Pvt. Ltd, New Delhi.

### Research Projects

University of Delhi, entitled, "Culture and Communication in Global Organizations" by Dr Sunil Sondhi (PI), Amount Rs 12 Lakh

University of Delhi, entitled, "Cyber Security Help System" by Dr.Meena Mehta (PI), Dr Preeti Gupta (Co-PI), Dr.Vandana (Co-PI), Amount Rs 12 cLakh.

University of Delhi, entitled, "Develop a Strategy for the In-house Performance Appraisal and Management of the Employees in the University of Delhi" by Dr.T.N.Ojha (PI), Dr.Kalpna (Co-PI), Dr. Priya Gupta (Co-PI), AmountRs 12 Lakh.

University of Delhi, entitled, "Developing E-Learning Materials for Information Management of Higher Education" by Mr. S.K.Rinten (PI), Mr.Vinay Rai (Co-PI), Ms.Rachita (Co-PI), Amount Rs 12 Lakh.

University of Delhi, entitled, “Strategic Management of Higher Education Institutions: A Case Study of University of Delhi” by Dr.Sanjeev.K.Tiwari (PI), Ms.Sushmita (Co-PI), Amount Rs 12 lakh.

University of Delhi, entitled, “Workspace Optimization for Communication and Innovation” by Dr Niraj Kumar (PI), Dr Anshul Taneja (Co-PI), Ms Sonia Sachdeva (Co-PI), Amount Rs 12 lakh.

University of Delhi, entitled, “To Design and Develop Low Cost, Self-learning Heterogeneous Swarm Robotic Ecosystem” by Dr.Praveen.K.Pandey (PI), Dr Maneesha (Co-PI), Mr Sachin Kumar (Co-PI), Amount Rs 12 lakh.

University of Delhi, entitled, “An Analytical Study of Debates of Jammu and Kashmir in Indian Parliament and Legislative” by Dr.Sanjeev.K.Tiwari (PI), Amount 16.7 Lakhs.

### **Seminars/Conference Organized**

Department of Business Economics organized a seminar on ‘Cryptocurrency and Blockchain’ on 28 February 2019.

The Department of Journalism organized a seminar on Indian Rural Dialogue on 14 September 2018.

The Department of Journalism also organized a two-day National Seminar, ‘The Relevance of Contemporary terminologies in Journalism’, in association with Commission for Scientific and Technical Terminology (CSTT), Ministry of Human Resource Development, Government of India on 6-7 October 2018.

The Department of English organised its 4th Interdisciplinary National Conference titled, Indian Popular Fiction: Redefining the Canon in collaboration with FORTELL on 16-17 January 2019.

### **Seminar/Conference Presentations**

Abha Mittal presented a paper entitled, “The destination of the Holy Ganga”, in the 14<sup>th</sup> International Conference on IC Research and Development of India as Multidisciplinary Approach organised by Shivalik College of Engineering, Dehradun in Association with South Asian Management Association, held during 29-31 December 2018.

Preeti Singh presented a paper entitled, “Optimization of Gate Oxide of Dual-Gate MISHEMTs for Enhanced DC performance” (paper ID-53) at 4th IEEE International Conference on Devices, Circuits and Systems (ICDCS2018) Karunya University, Coimbatore, India on 16-17 March 2018.

Neha presented a paper entitled, “Temperature Based Analysis of 3-Step Field Plate AlGaN/GaN HEMT using Numerical Simulation”, in 4<sup>th</sup> International Conference on Nanotechnology-Application Advances and Innovations, Pune, India on 25-26 October 2018.

Prem K. presented a paper, entitled, “Spiritual Ecology, the Indigenous and Oral expressions” at International Conference on Ecology and Culture, titled, “Ecological and Cultural Cognizance: A Boulevard of Sustainable Amiability” organised by *FSLE-INDIA and* Amrita Vishva Vidyapeetham held at Amrita Vishva Vidyapeetham, Amritapuri Campus, Kollam, Kerala during 15-17 December 2018.

Vandana Kumari presented a paper, entitled, “TCAD Based Investigation of Gaussian Doped Double Gate Junctionless (GD-DG-JL) Transistor” International Conference on Microelectronics Devices and Technology MicDAT-2018, Barcelona, Spain, from 20-22 June 2018.

Preeti Singh presented a paper entitled, “Optimization of Gate Oxide of Dual-Gate MISHEMTs for Enhanced DC performance” (paper ID-53), 4th IEEE International Conference on Devices, Circuits and Systems (ICDCS2018) Karunya University, Coimbatore, India, 16-17 March 2018.

Ritu Kohli presented a paper entitled “Mandatory CRS: Revisiting Trusteeship” International Conference organised by Shyam Lal College (evening) on 30-31 August 2018.

Debosmita Paul presented a paper entitled "Versions of Thakurmar Jhuli and Bengal: A Study of the Changing Bengali Society through the Popular Bangla Children's Tales" at National Conference on Indian



Popular Fiction: Redefining the Canon organized by Dept of English, Maharaja Agrasen College, on 16 -17 January 2019.

Sheetal B. Sachdeva presented a Paper on "An Empirical Assessment of Awareness Attitude of Peace n Peace Education among students of Delhi University" in the SIR: Spirituality in Researchers National Conference organised by SpARC of Brahmakumaris, Mount Abu, and Rajasthan from 3-7 August 2018

Indrani Das Gupta, Co-presented a paper titled “Making of a Millennial Hero: Reading Amish Tripathi The Immortals of Meluha” at the 4<sup>th</sup> National Interdisciplinary Conference titled Indian Popular Fiction: Redefining the Canon, organized by Department of English, Maharaja Agrasen College, University of Delhi from 16-17 January 2019.

### **Placement Details**

Number of students placed 13 out of 92 (14%)

Number of companies visited for campus recruitment: 9

### **Extension and Outreach Activities**

NSS unit of Maharaja Agrasen College conducted many activities during this academic session. “Zero Impact On Environment”- group of MAC-NSS organized weekly cleanliness drives in the College and nearby areas including the market for 'four' months. Workshops on Stress Management: “Nitai Sound Yoga” and on Community Sensitization towards Visually Impaired Persons were organized. A Project BLOOD Group: Drop of Life has been initiated in the college. The 20 member team carried out an awareness program and asked the college students to fill a goggle form designed to provide and collect blood group related information. Keeping in view the problem of stubble burning as the main cause of pollution in Delhi-NCR region, the NSS team held workshops in villages to apprise the villagers of various techniques available to decompose farm waste and distributed the decomposing culture.

### **Library Development**

Library has a good collection of more than 41837 books and 47000 National and International e-journals and other important e resources related to Science & Technology, Social science, Arts and Humanities. The library well equipped with latest information & technologies managed by the qualified & dedicated library staff. An information technology caters to services to student, faculty members, Research scholars and community involved in seeking behavior discipline. Library fully managed by ALICE FOR WINDOW (library Automation software). Library organized library orientation programme, book exhibition workshop etc time to time for users

### **Faculty Strength**

Permanent - 63

Ad-hoc - 58

### **Financial Allocation and Utilization**

Grant sanctioned - Rs. 23.44 Crore

Grant utilized - Rs. 28.43 Crore (Approx.)

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## **MAHARSHI VALMIKI COLLEGE OF EDUCATION**

### **Major Activities and Achievements**

The academic session started with a well-planned orientation programme addressing all aspects of the two-year B.Ed. programme. The Foundation Day of the College was celebrated on November 16, 2018. Professor Mohammad Akhtar Siddiqui, Former Chairperson, NCTE and Professor of Education, Jamia Millia Islamia gave

the Foundation Day Address. 'Right to Education and its Amendments' an interactive session was held by Mr. PS Sharda, Senior Advocate, Supreme Court of India. Students whole-heartedly participated in the special assemblies marking Independence Day, Teachers Day, International Democracy Day, and Human Rights Day. Special co-curricular programme were organised by the students on Environment Sensitization, Gender Sensitization, Inclusion, Voter's Day, World Health Day, and Earth Day. A hand on demonstration on Disaster-Management-Training-cum-Sensitization Programme was conducted by District Disaster Management Authority (East Delhi) for the students and employees of the College.

### **Publications**

Bala, R., Prapanna, R. (2018) Akhbaro meinbaro mein vyakt pariksha parinaam evam shaikshik visamata. *Art, Culture, Philosophy, Religion, Language and Literature*. 4(2): 266-268.

Chawla, M. (2018). Examining the Role of Teacher Educators in the Changing Scenario. *Universal Review*. XI (7):17-29.

Chawla, M. (2018). Understanding the Role of Teacher Educators in Changing Scenario under the School Internship Model. *MERI Journal of Education*. Delhi. XIII (1): 36-48.

Prapanna, R., Bala, R. (2018). Vidyalayi Hindi Shikshan Rajnitik Chetna our Shikshan Shastra. *Art, Culture, Philosophy, Religion, Language and Literature*. 4.(2): 263-265.

Prapanna, R. (2018). The Epistemology of Hindi Language Teaching: from the perspective of the students with special needs, *MERI Journal of Education*, 8(2): 66-73.

### **Seminar/ Conference Presentations**

Parmesh Kumar Sharma gave Plenary Talk on the theme "Assessment for Teaching and Learning in the Capacity Building Programme in Educational Assessment" organized to enrich the assessment competence of Core Academic Unit (CAU) of the Department of Education, Govt. of NCT of Delhi as an inter-institutional venture, and held at Department of Education, Central Institute of Education, University of Delhi, Delhi held from 08–12 October 2018.

Raghavendra Prapanna presented a paper entitled, 'Vidhyalayi Hindi Shikshan, Rajnitik Chetna aur Shikshan Shastra' along with Ritu Bala in International Conference On Education, Instructional Studies, Anthropology, Gender Studies, Humanities, Psychology, Sociology, Law and International Studies, organized by Krishi Sanskriti at Jawaharlal Nehru University, New Delhi on 29 December 2018.

Vandana Gupta, Resource person on 'Assessment of Teaching Learning Processes' during the Capacity Building Programme for teachers of Ideal Institute of Management and Technology (GGSIIP University) on 10 September 2018.

Nisha, presented a paper entitled 'Semblance, Sanity and Sexuality: Deconstructing the Lesbian Identity in Indian Context' at the Conference on 'Empowering Women through Transformative Education' held at Jesus and Mary College, University of Delhi on 3-4 October 2018.

Nisha, presented a paper entitled 'Transforming Teacher Education in India: Some Reflections' at the International Conference on Learning held at Department of education, Lady Irwin College, University of Delhi, held during 28-30 September 2018.

### **Seminars Organized**

Dr. Ramesh Chander, Associate Professor (Retd.), Faculty of Education, University of Delhi, Comprehending Nature of Disciplines, Problems of Simplification and Diversification, 28 January 2019.

Dr. Sushil Dhiman, Associate Professor (Retd.), Maharshi Valmiki College of Education, University of Delhi, Relevance of Ethics at Higher Education Level , 01 April 2019.

### **Library Development**

College library procured 260 books during the year 2018-2019 and subscribed to 18 journals/magazines and 06 daily newspapers (English/Hindi) besides the e-journals available to it through DULS.

### **Faculty Strength**

Permanent - 14

Ad-hoc - 04

### **Financial Allocation and Utilization**

Grant sanctioned - Rs. 85148849/-

Grant utilized - Rs. 61198093/-

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## **MAITREYI COLLEGE**

### **Major activities and achievements**

Maitreyi College retained excellence in Academics, Sports and Curricular activities. The overall pass percentage was 89.74%. Our faculty members continued to earn laurels for the college and authored 11 books, 15 chapters in edited books and published 60 research papers. The college organized the unique interdisciplinary fest “Avgaahan” which received extensive student participation. Under the aegis of “Research and Incubation Center”, Summer Internship Program was successfully completed with 24 student research projects funded by the college. Enabling Unit organised an interdisciplinary Faculty Development Programme on “Disabilities Studies: Perspectives and Emerging Trends”. A Nodal Sports Center “Sashakt” for PwDs (Persons with Disabilities) has been established in the college. Two startups- “Gulistan” and “Kriti” have been successfully launched.

### **Honours/Distinctions**

Maitreyi College won the “Plastic Free College of the Year” Award-2018 on occasion of World Environment Day at National Environment Convention-2018 organized by Indian Institute of Ecology and Environment and National Institute of Cleanliness Education and Research.

Dr. Mala Kapur Shankardass, Department of Sociology was awarded the Best Teacher Award by the Delhi Government Directorate of Higher Education in March 2019.

Dr. Pramod Kumar Singh, Department of Sanskrit received the “National Award (Rashtriya Puraskar)” under Best Employee Category from Ministry of Social Justice & Empowerment, Govt. of India. The Honourable Vice President of India, Shri M. Venkaiah Naidu handed over the award. He was also awarded the “Dr. Ambedkar Sahityashree National Award-2018” by BDS Academy, New Delhi in December, 2018.

Dr. Renu Gupta, Department of Zoology was awarded a three-month post-doctoral scholarship by the Austrian Agency for International Cooperation in Education & Research, Centre for International Cooperation & Mobility (ICM) to work at Institut für Limnologie, Mondsee, Austria.

Ms. Smriti Singh, Department of English was awarded by the ‘Badte Kadam-NGO’ for her contributions for the upliftment of slum women on International Women’s Day.

### **Students with distinctions**

Anushka Mann of BSc.(Hons.) Chemistry VI Semester secured II position in the University with CGPA 9.62

## Publications

Chaudhary, A., Khurana, J.M., Khanna, G., Saroha (2018). A Catalyst-Free Domino Protocol for the Chemoselective Synthesis of Multifunctionalised Pyrroles in Aqueous Media via Nitroketene- N,S -Acetal Chemistry” *Chemistry Select*, 3(23), 6334-6337.

Chopra, H., Chaudhary, A., Gaba, R. (2018). Recent advances in the catalytic exploitation of chitosan based catalysts in organic transformations, *Pharma Innovation Journal*, 7(10): 311-318.

Gupta, R. (2018). Techniques and tools for species identification in ciliates: a review. *International Journal of Systematic and Evolutionary Microbiology*, DOI: 10.1099/ijsem.0.003176 2.(2018)

Saluja P., Khanna G., Chaudhary A., Khurana J.M. (2018) Synthesis of Spiro[Indene-2,2'-Naphthalene]-4'-Carbonitriles and Spiro[Naphthalene-2,5'-Pyrimidine]-4-carbonitriles via One-pot Three Component Reaction Using Task Specific Ionic Liquid. In: *Green Chemistry in Environmental Sustainability and Chemical Education*. Parmar V., Malhotra P., Mathur D. (eds) Springer, Singapore.

Singh, Anamika (2018). Plant Growths Regulator In: Theoretical Models and Experimental Approaches in Physical Chemistry Research Methodology and Practical Methods. CRC Press: Taylor and Francis Group, USA.

Sisodia, R. (2018). Plant Movements In: *Development and Metabolism*, Springer 2018. ISBN-10: 9811320225

Talwar, S.L. (2018). Effect of electric field on thermodynamic properties of confined molecules, *Chemical Physics* 510, 37–46.

Talwar, S.L. (2018). Rotational excitations of diatomic molecule with delta potential barrier. *Journal of Theoretical and Computational Chemistry*, 17, 1850022.

Yadav, M. (2018). Menstrual cycle and the misconception associated with it among young women in Delhi-NCR, India, *International Journal of Health Sciences and Research*, 8(4): 185-191.

Yadav, M. (2018). Morphological changes in human RBCs due to exposure to selected medicinal plant leaf extract *in-vitro*, *International Journal of Pharmaceutical Sciences and Research*, 9(6): 2405-2410.

## Journals

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board : 01

## Research Projects

DBT Govt. of India, Ministry of Science and Technology (upto 31-3-19), “Understanding Signaling mechanism of inflammation of fish *Channa punctatus*’ by Dr. Brototi Roy (PI), Amount Rs. 27,643.90.

UGC Startup Project, Dr. Ankita Chaudhary, Dr. Rajni Johar Chatwal, Dr. Hema Bhandari, Dr. Lata Vodwal, Amount Rs. 24, 00, 000/-(Rs.6,00,000 each)

## Seminars organized

Department of Hindi organized one day National seminar on ‘Jaishankar Prasaad: Sahitya aur Chintan’ on 30 January 2019.

## Conferences organized

National Conference on “Trends in Life Sciences and Biotechnology: Innovative Paradigms” organized by Department of Botany during 19-20 February 2019.

A two-day National Faculty Development Programme titled “Research: Problem Formulation and Analysis” was organized by Department of Commerce.

Enabling Unit organized an Interdisciplinary Faculty Development Programme on “Disabilities Studies: Perspectives and Emerging Trends” in collaboration with TLC, Ramanujan College.

### **Seminar / Conference Presentations**

P Kavita and Anamika Singh presented a poster on “Identification of new herbal ligands against *Trichomonas vaginalis*” at Global Conference on Reproductive Health with Focus on Occupational, Environmental and Lifestyle Factors held at JNU during 22-24 Feb 2019.

Jyoti Singh, Renu Gupta, Brototi Roy, Meena Yadav, Archana Agarwal and Dr. Shalini Singh presented papers at the International Symposium of Ciliate Biology (ISCB) held at India Habitat Center.

Pardeep Rai presented a paper entitled, “Best practices in Maitreyi College Library: a case study” in an International conference: 64<sup>th</sup> Indian Library Association (ILA) conference held at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore held during 14-16 March 2019.

Pardeep Rai presented a paper entitled “Information Literacy: a conceptual framework” during MUCLA National Conference on “Revamping of Academic Libraries for Next Generation” at Jalgaon, Maharashtra on 30 November 2018.

Pramod Kumar Singh, presented a paper entitled, “Sanskrit Ewam Pali Bhasha ka Antahasambandh” in Two Day National Seminar jointly organised by UP Sanskrit Sansthan and Govt. PG College, Mau, UP held in September 2018.

Rajani Johar, presented poster in National conference on “Chemistry for human health and environment on designing chemistry for a sustainable tomorrow” organised by green chemistry network Centre University of Delhi and Royal Society of Chemistry London at University of Delhi.

Sushil Kuamri, presented a paper, entitled, “**भोजोक्ता वैशेषिकगुणावधारणा – एकमनुशीलनम्**” in the 17<sup>th</sup> World Sanskrit Conference held in Vancouver, Canada during 9-13 July 2018.

Nupur Kataria and N Shradha Varma, presented a paper titled ‘Economic development through vocational education: Analysis of its impact on Indian economy’ in National Seminar on ‘Recent advances in Quality Education: Pave the way’, NSRAQE 2019 organized by G.G.D.S.D College, Palwal, on 12 January 2019.

### **National/International MoUs signed**

MoU signed with National Ageing Research Institute Ltd. (NARI), Australia.

MoU signed with Indian Business Chamber, New Delhi

MoU signed with Translational Health Science and Technology Institute (THSTI), Faridabad

MoU signed with ICT Academy- an initiative of the Government of India in collaboration with the state Governments and Industries.

### **Students under Exchange Programme**

Maitreyi College in association with Translational Health Sciences and Technology Institute (THSTI), Faridabad has started a students training program under “Shadow Scientific Workshop” at THISTI”. Four students of BSc Life Science VI Semestersent participated in one-week training program that was extended up to two weeks.

### **Placement Details**

Number and Percentage of Students Placed: 150 out of 1400 (11%)

Number of companies visited for campus recruitment; about 10

### **Extension and Outreach Activities**

As a part of its outreach program, the NSS wing of Maitreyi College adopted five villages across India - Taraiya Chhapra (Bihar), Jivwana Guliyan(Uttar Pradesh, Near Meerut), Dakpathar(Utrakhand), Digghi(Jharkhand) and Dibrugarh(Assam). It also adopted three old age homes viz. Sandhya Senior Citizen Old Age Home, Godhuli Old Age Home and Vardaan Senior Citizen Centre in Delhi NCR. A kids carnival-Navoudit was held by NSS, in collaboration with Youth for Seva, which witnessed the participation of 1500 slum students from age of 8 to 14 yrs from all over Delhi NCR. Disaster management by NDRF and first aid and road safety, where 28 colleges of University of Delhi were invited and over 300 students, faculties and non teaching staff participated. Enactus Maitreyi organized various campaigns such as `Daan Utsav` in collaboration with Goonj, Spray painting competition for specially-abled children of Anukriti School, and awareness drive on World Toilet Day in association with Sulabh School Sanitation Club.

### **Library Development**

The College Library acquired 878 books during 2018-19. It subscribes to 56 Journals including popular magazines and a collection of 19 Newspapers are available in the library. The total collection of the library has been augmented to 96600 and 675 CDs. The library subscribes to more than six thousand e-journals, 1,25000+ titles of E-books by E-brary and World -ebooks Library (30,00,000 titles) through N-LIST. Library has created its own Institutional Repository using DSPACE software which is accessible in the library only. The college library has conducted Information Literacy programs course wise for the students admitted in 2018.

### **Faculty Strength**

Permanent - 92

Ad-hoc - 64

### **Financial Allocation and Utilization**

Grant received: Rs. 846,495,850/-

Grant utilized: Rs. Rs. 480,073,349/-

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## **MATA SUNDRI COLLEGE FOR WOMEN**

### **Major Activities and Achievements**

College organized various International and National seminars and workshops this year. The 1<sup>st</sup> International Seminar on the 'Socio-Cultural Study of Agriculture' was organized from 15-16 March 2019. The 1<sup>st</sup> International Workshop in collaboration with Haute école pédagogique (HEP), Lausanne, Switzerland on 'Education for Sustainable Development: Curricular and Pedagogic Experiences from Switzerland and India' was held from 29<sup>th</sup> - 31<sup>st</sup> January 2019. The 1<sup>st</sup> International Lecture Series on the topic 'Position of Women in Sikh Religion' was held on 19<sup>th</sup> December 2018. A New Add-on course 'Mastering the Stock Market' was started in February 2019 in collaboration with Bombay Stock Exchange (BSE).

### **Students with Distinctions**

Richa Malhotra of B.Com. (Hons) won the 'Student of the Year' Award with a CGPA of 9 in 5<sup>th</sup> Semester and for her active participation in extra-curricular activities.

Sakina, Sonal Yadav and Nidhi Chaudhary from N.S.S. have been awarded the 'The Best Interns' during the SBSI programme 2018, by the NSS unit of the College.

Reeta, MAT won the Best Athlete Award. She participated in 11 tournaments and won 2 Gold, 1 Silver, and 6 Bronze medals.

Chanchal B.Com (Programme) won the 'Best Sports Person of the Year' Award for representing the college in 4 games- Kho-Kho, Ball-badminton, Badminton and Football.

Meenakshi Negi of History (H) II Year went with the team of SO Bharat as Football Coach to the Olympics World Games 2019 held from 14 -21 March 2019 at Abu Dhabi, UAE. Under her guidance the team secured Bronze Medal.

### **Publications**

Ahlawat, M., Sen, H., Chaudhary, M., Pokhriyal, A. (2019). *British Literature: Selections*. Delhi: Worldview Publications. ISBN 978-93-82267-50-8

Arora, R. (2018). *Business Laws for B.Com. (Hons.) Semester 1*. Delhi: NetShop 18. ISBN 9789387633049.

Gupta, L. (2019). *Ratnkumar Saaambhria ki Pratinidhi Kahaniyan*. Delhi: Shri Sahitya Prakashan. ISBN No. 978-93-86402-35-6

Kaur, H. (2018). (translated). *Dilli Vich Baba Banda Singh Bahadur Naal Sabandhit Sathana di Nisaandehi* by Dr. Harbans Kaur Sago. Delhi: Manpreet Prakashan. ISBN: 81-87654-23-6.

Kaur, S. (2018). Relationship of Body Dissatisfaction of Self-esteem and Socio-cultural Pressure. *International Journal of Social Sciences Review*. 6. 1320-1329 . ISSN-2347-3797

Kunwar, N. (2019). *Oxford Advantage Little Champs 'Hindi': An Integrated Learning Solution' Level 1*. Oxford University Press. Delhi ISBN 978-0-19-949201-5

Luthra, P., Kumar, A. (2018). Nuclearity Properties and  $C^*$ -Envelopes of Operator System Inductive Limits. *Journal of Korean Mathematics Society*. 55(5): 1045-1061.

Verma, R. (2019). *Engineering Mathematics (Conventional and Objective Type)*. S. Chand & Company Ltd. New Delhi ISBN: 978-93-52836-53-6

### **Seminars Organised**

The 1<sup>st</sup> International Seminar on the 'Socio-Cultural Study of Agriculture' was organized by the College from 15-16 March, 2019

The B.A. Programme Society organised a National Seminar on 'Literature and Discourse' on 12 January, 2019

The Department of Hindi organised a seminar on 'Hindi Bhashaaur Sahityaka Bhavishya' on 14 September 2018.

The Department of Philosophy organized a seminar on 'Journey Inwards: Perspectives on Consciousness' on 9 August, 2018

### **Seminar/Conference Presentations**

Mamta Chawla presented a paper entitled, "Stri-Vimarsh: Hindi Sahitya ke Sandarbhmein" in a National Seminar on 'Language and Discourse' at Mata Sundri College for Women held on 12 January 2018.

Daljit Kaur presented a paper entitled, "Punjabi Premakhyans: Mark of Convergent Traditions" at an International Seminar on 'Indian Vernacular Literature: *Premakhyana*' at ARSD College, University of Delhi held during 29–30 January 2019.

Gursharan Kaur presented a paper entitled "Punjabi Lok geeton mein Naari ka Chitran: Ek Drishtipat" in a National Seminar on 'Literature and Discourse' in Mata Sundri College for Women held on 12 January 2019.

Gurvinder Kaur presented a paper entitled, “Kind of Commitment Matters: Affective and Professional Commitment as Significant Predictors of OCB of Academia” at the International conference at Deen Dayal Upadhaya College, University of Delhi held from 4-5 January 2019.

Harleen Kaur presented a paper entitled “Energy Efficiency Attitudes and Implications for Promotion Strategies” at the 6<sup>th</sup> National Conference on ‘Business and Management’ 2019, at Shaheed Bhagat Singh College, University of Delhi held from 24-25 February 2019.

Rajinder Kaur presented a paper entitled “Madhyakalin Sahitya Mein Naari” in a National Seminar on ‘Language and Discourse’ at Mata Sundri College for Women on 12 January 2019.

Manisha Subba presented a paper entitled, ‘Teaching EVS for Sustainability: Concern for Food Access and Hunger’ in the International Workshop on ‘Education for Sustainable Development: Curricular and Pedagogic Experiences from Switzerland and India’ at Mata Sundri College for Women in January 2019.

Lakshmi Vatsa presented a paper entitled ‘Rural Development’ at the International Seminar on ‘Socio-Cultural Study of Agriculture’ at Mata Sundri College for Women held from 15-16 March 2019.

Ishpreet Viridi presented a paper, entitled, ‘The Impact of Advertising on the Digital Consumer: A Case of Amazon and Jabong’ in a National Conference on ‘Transforming Nation through: CSR, Financial Inclusion, Empowerment & Digitalization’ at School of Business Studies, Vivekananda Institute of Professional Studies, Delhi held during 14-15 May 2018.

Pooja Wadhawan and Krishnani, Hemlata presented a joint paper entitled, “Winning the Battle of Life: Suicide and Stress” in the International Seminar on ‘Socio-Cultural Study of Agriculture’ at Mata Sundri College for Women held during 15-16 March 2019.

#### **Other Inter-Institutional Collaboration**

Department of B.El.Ed continued its School Collaboration Project SAHYOG- ‘*Stepping Together Ahead*’ with Sri Guru Harkrishan Khalsa Girls Senior Secondary School and Kamlesh Balika Vidyalaya (Primary and Middle).

#### **Placement Details**

Number of students placed: 13

Number of campus visited for campus recruitment: 9

#### **Library Development**

1,528 books were added this academic year. The college subscribes to 70 journals and magazines and 17 newspapers.

#### **Faculty Strength**

Total Permanent: 89

Total Ad-hoc: 99

#### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 38,43,30,000/-

Grant utilized: Rs. 39,08,89,134/-

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## MAULANA AZAD INSTITUTE OF DENTAL SCIENCES

### Major activities and achievements

The Institute is catering an average of 1470 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. The institute 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 the Magazine Outlook, India Today and The Week Dental Colleges Survey -2018. Under the NIMTLI Dental Implant project a Cone Beam Computed Tomography (CBCT) was installed.

### Honours/Destinations

Institute was awarded “Dr. Kedar N. Rustagi Award 2018” by the International College of Dentists at ICD Annual Convocation & Award function Hyderabad on 15 December 2018.

Institute was awarded “Rao memorial award” for best outreach activities by Famdent awards 2018 at Mumbai in December 2018.

Institute was nominated for “Kalmegh award for innovation and research in dentistry of the year” Famdent awards 2018 at Mumbai in December 2018.

Institute was awarded the Jury award in social initiative category by 10<sup>th</sup> FICCI Health Care Excellence Awards 2018 AT Delhi on 30 August 2018.

Dr. Mahesh Verma was awarded “Aarogya Sevavrat Puraskar” by Vaidyakeeya Madat Nidhi at Mumbai on 30 June 2018.

### Publications

Gopal, R., Singh, N., Tripathi, T., Rai, P., Gupta, P. (2018). The Angle Orthodontist Response to: Effects of skeletally anchored Class II elastics: A pilot study and new approach for treating Class II malocclusion. Selin Ozbilek, Ahmet Yalcin Gungor and Salih Celik. *Angle Orthod* 2017;87:505-512. *The Angle Orthodontist*, 88(5), 665-665. doi:10.2319/0003-3219-88.5.665.

Kumar, A., Sharma, D. S., Verma, M., Lamba, A. K., Gupta, M. M., Sharma, S., & Perumal, V. (2018). Association between periodontal disease and gestational diabetes mellitus—A prospective cohort study. *Journal of Clinical Periodontology*, 45(8), 920-931. doi:10.1111/jcpe.12902.

Kumar, P., Surya, V., Urs, A. B., Augustine, J., Mohanty, S., & Gupta, S. (2018). Sarcomas of the Oral and Maxillofacial Region: Analysis of 26 Cases with Emphasis on Diagnostic Challenges. *Pathology & Oncology Research*, 25(2), 593-601. doi:10.1007/s12253-018-0510-9.

Narayan, B., Urs, A. B., Augustine, J., Singh, H., Polipalli, S. K., Kumar, S., & Kapoor, S. (2019). Genetic alteration of Exon 5 of the PTEN gene in Indian patients with ameloblastoma. *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*, 127(3), 225-230. doi:10.1016/j.oooo.2018.11.011.

Neha, Tripathi, T., Mohanty, S., Rai, P. (2018). A Novel Minimally Invasive Technique of Using Tooth-Borne Hyrax Expansion Screw for Distraction Osteogenesis of Large Alveolar Cleft Defects (HYDIS-TB). *The Cleft Palate-Craniofacial Journal*, 55(6), 895-902. doi:10.1597/15-335.

Piyush, P., Mahajan, A., Singh, K., Ghosh, S., Gupta, S. (2018). Comparison of therapeutic response of lycopene and curcumin in oral submucous fibrosis: A randomized controlled trial. *Oral Diseases*, 25(1), 73-79. doi:10.1111/odi.12947.

Rawat, G., Urs, A., Chakravarti, A., Kumar, P. (2018). Evaluation of DNA Damage in Peripheral Blood Leukocytes in Oral Potentially Malignant and Malignant Disorders by Comet Assay. *Clinical Cancer Investigation Journal*,7(2), 50. doi:10.4103/ccij.ccij\_66\_17.

Sultana, N., Singh, M., Nawal, R. R., Chaudhry, S., Yadav, S., Mohanty, S., Talwar, S. (2018). Evaluation of Biocompatibility and Osteogenic Potential of Tricalcium Silicate–based Cements Using Human Bone Marrow–derived Mesenchymal Stem Cells. *Journal of Endodontics*, 44(3), 446-451. doi:10.1016/j.joen.2017.11.016.

Utneja, S., Talwar, S., Nawal, R., Sapra, S., Mittal, M., Rajain, A., Verma, M. (2018). Evaluation of remineralization potential and mechanical properties of pit and fissure sealants fortified with nano-hydroxyapatite and nano-amorphous calcium phosphate fillers: An in vitro study. *Journal of Conservative Dentistry*,21(6), 681. doi:10.4103/jcd.jcd\_31\_18.

Verma, M., Mohanty, V., Talwar, S. (2018). D-CAST: Enhancing communication skills among dental students. *Medical Education*, 52(5), 557-557. doi:10.1111/medu.13551.

### **Journals**

Journals published by college : 01

Number of college teachers serving as Editor(S)/Members(s) of Editorial Board: 33

### **Research Projects**

University Grants Commission (2015-2018), “Biochemical markers and their comparative evaluation with radiographic skeletal growth maturity indicators”, Amount 14 Lakhs

Department of Science and Technology (2018-2021), “Design and Development of Indigenous Instrument Retrieval Equipment For Removal of Broken/ Separated Files During Endodontic Therapy”, Amount 91 Lakhs.

National Oral Health Program, Ministry of Health & Family Welfare, (2017-2018), “Pit and Fissure sealant Project under National Oral Health Program”. Amount 7 Lakhs.

### **Seminars Organized**

Dr. Joseph Massad, dental practitioner, Tulsa, Oklahoma, Newer and Established Dentistry for Prospective Engineered Rehabilitation, 10 April 2018.

Dr. Sigrid Hader, Scientific affairs, 3M Health care academy, Indirect procedure simplified, 7 August 2018.

Prof. Peter Mossey, University of Dundee, Advanced Education and Opportunities for Postgraduates in UK Universities for Students’, 24 November 2018.

Dr. Rana J Singh & Dr. Sonu Goel, The UNION & PGI (Chandigarh), Roundtable consultation of Coalition partners for development of resource center- Tobacco control, 27 July 2018.

Dr. Swasti Charan & DR. Mahesh Verma, MAIDS, New Delhi, ‘1<sup>st</sup> Drafting workshop on National Oral Health Policy’ delivered in collaboration with Ministry of health and Family Welfare, Govt. of India, 24 August 2018.

### **Conferences Organized**

32<sup>nd</sup> Annual Convocation and Award Ceremony of by Pierre Fauchard Academy, India Section Funding agency support – Pierre Fauchard Academy, India Section & MAIDS on 22 December 2018.

**5<sup>th</sup> Global American Academy of Implant Dentistry - Conference & 1<sup>st</sup> Asian Hard and Soft Tissue Symposium**, held during 1– 3 March, 2019.

### **Seminar/Conference Presentations**

Aadithya B Urs presented a paper entitled, "Genetic polymorphism and gene expression of P13K gene in ameloblastoma" at 19<sup>th</sup> IAOP international conference held at Vancouver, Canada held during 23-28 June 2018.

Vikrant Mohanty presented E – poster on "Tobacco Cessation Clinics" at Asian Pacific conference on tobacco on health, Sri Lanka held during 13- 15 September 2018.

Vikrant Mohanty presented a Paper entitled, "Electronic cigarette users: in-depth interview" at Asian Pacific conference on tobacco on health Bali, Indonesia held on 13- 15 September 2018.

Aswini Y Balappanavar presented a paper, entitled, "Road blocks to delivery of rural oral health care" in a symposium at 15<sup>th</sup> WONCA World rural health conference at India Habitat Centre, Delhi on 27 April 2018.

Sangeeta Talwar delivered a Keynote address on Dental Innovation : Are we Keeping Pace with The Technology at National Conference on Digital Dentistry : CAD, CAM & CAE organized by Department of Mechanical Engineering, UNIT, Nagpur in collaboration with IPS, Nagpur branch on 11 August, 2018.

Tulika Tripathi delivered a Guest Lecture on Management of large alveolar cleft defects in cleft lip and palate from infants to adults at One day Workshop at Army Dental Centre, R & R, New Delhi on 23 March 2018.

### **Number and name of Domestic/International (MoUs) signed with partners**

MoU signed with Maurice H. Kornberg School of Dentistry, Temple University, Philadelphia, Pennsylvania, USA

MoU signed with Hebrew University, Israel

MoU signed with Dental Recycling International, Inc. (Dri)

### **Students under Exchange Programme**

Inbound: 10 and Outbound: 15

### **Placement details**

Number and percentage of students placed : 14% in private practice; 16% 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,NOHP = pit and fissure sealant project)

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 sanctioned - Rs. 39.50 Crores

### **Any other significant information**

Phase II building of MAIDS has been started with new research facilities and competitive quality equipments. The sign language IEC material for hearing impaired has been developed. 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 most recent 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.

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## **MIRANDA HOUSE**

### **Major activities and achievements**

Miranda House was awarded All India Rank One amongst colleges under the National Institutional Ranking Framework (NIRF) 2019 for the third consecutive year. It was also ranked as the top most college in the Science Stream in the India Today Best College Survey 2019 for the second consecutive year. 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: Symposium on Empowering Women in Chemistry as a part of the Centenary Celebration of the International Union of Pure and Applied Chemistry (IUPAC); Science Conclave 2019 for undergraduate and postgraduate INSPIRE scholars sponsored by DST. College won the Vice Chancellor's Cup at the 91<sup>st</sup> Annual Flower Show and swept eleven other awards consecutively for the second year.

### **Honours/ Distinctions**

Dr. Pratibha Jolly was honored with the Woman Entrepreneurship mentor award at 9<sup>th</sup> Woman Entrepreneurship Conference, 2019.

Dr. Bijayalaxmi Nanda was honored with the Swayamsiddha Samman in the Kavikumbh Sammellan 2019.

Dr. Poonam received the Distinguished Investigator Award at the International Conference on Integrative Chemistry, Biology and Translational Medicine organized by Center for Global Health, Hansraj College, University of Delhi, India & Loyola University Chicago Stritch School of Medicine, USA in association with TCI Chemicals (India) Private Limited, 2019.

Dr. Shampa Roy received the Charles Wallace Trust Translation Fellowship award 2019.

Dr. Monika Sharma received the Bill and Melinda Gates Foundation Global Health Travel Award for attending and presenting a paper at Banff, Alberta, Canada, 2019.

### Students with Distinctions

Devika Grover of B.A. Programme III year, secured I position in the University.

Neelanjana Paul of B.A. (H) Bengali III year, secured I position in the University.

Priya Gupta of B.A. (H) Philosophy III year, secured I position in the University.

Anmol Mor of B.A. (H) Physics III year, secured I position in the University.

Ruchi Bhatt of M.Sc. (F) Botany, secured I position in the University.

The Taekwondo team continues their winning spree for the sixth consecutive year by becoming the Winner's in the Delhi University Inter College Taekwondo Championship with 5 Gold medals and 2 Silver medals.

### Publications

Ameer, S., Jindal, K., Tomar, M., Jha, P.K., Gupta, V. (2019). Insight into electronic, magnetic and optical properties of magnetically ordered Bi<sub>2</sub>Fe<sub>4</sub>O<sub>9</sub>. *Journal of Magnetism and Magnetic Materials*, 475, 695-702.

Borkar, H., Rao, V., Tomar, M., Gupta, V., Kumar, A. (2018). Near room temperature bismuth and lithium co-substituted BaTiO<sub>3</sub> relaxor ferroelectrics family. *Journal of Alloys and Compounds*, 737, 821-28.

Gupta, B. (2018). Land use/land cover change and its impact on climate in the Arak Valley, Assam. In: *Playing with Nature, History and Politics of Environment in North East India* (ed S. Nag), Routledge, London.

Gupta, M., Srivastava, M. (2019). Well-posedness and scalarization in set optimization involving ordering cones with possibly empty interior. *Journal of Global Optimization*, 73, 447-63.

Nanda, Bijayalaxmi, (2018). Sex-selective abortion and reproductive rights: a syncretic feminist approach, In: *Discourse on Rights in India: Debates and Dilemmas*, Nanda. B. & Ray, N. (ed), Routledge Publication., New York.

Pandey, K., Singh, S., Medha, P., Sharma, M., Chaudhary, A., Sharma, S. (2019). DosR proteins of Mycobacterium tuberculosis upregulate effector T cells and down regulate T regulatory cells in TB patients and their healthy contacts. *Microbial Pathogenesis*, 126, 399-406.

Pathak, M., Sharma, D., Sharma, M., Sharma, N. (2018). Spectroscopic and thermodynamic studies of the binding mechanism of metformin to pepsin. *J. Mol. Structure*, 1166, 183-189.

Sahu, S. (2018). The trajectories of life, work and sexuality: the rights of the transgender, in India, In: *Discourse on Rights in India: Debates and Dilemmas*, Nanda. B. & Ray, N. (ed), Routledge Publication, New York.

Saini, K., Bhatia., S. S., Gupta, N. (2018). Electrochemical synthesis of multidimensional nanoparticles and their photocatalytic applications In: *Green Chemistry in Environmental Sustainability and Chemical Education* Parmar, Virinder S., Malhotra, Priti, Mathur, Divya (Eds.) Springer Nature, pp 51-59

Singh, S., Monika, M., Chaudhary, A., Sharma, S., (2019). Rv2626c and Rv2032 activate TH1 response along with downregulation of regulatory T cells in Peripheral Blood Mononuclear Cells of Tuberculosis patient. *Comparative Immunology, Microbiology and Infectious Diseases* 62: 46-53.

Suneja, S., Sharma, S., Chaudhary, M. (2018). Vector optimization with generalized cone locally connected functions. *Opsearch* 55: 302-19.

### Research Projects

Department of Science and Technology, 2018-2021, entitled, "A study of macrophage apoptosis and mitochondrial integrity in response to PE/PE\_PGRS family proteins of *Mycobacterium tuberculosis* by Dr. Monika Sharma (PI), Dr. Sadhna Sharma (Co-PI), Amount Rs. 68 Lakh.

Department of Science and Technology, 2014-19, entitled, “ Development of thin film Surface Acoustic Wave device as a platform for the sensing applications” by Dr. Monika Tomar (PI), Amount Rs. 474.34 Lakh.

Department of Science and Technology, 2017-2020, entitled, “Development of Ferroelectric thin film based photovoltaic cells” by Dr. Monika Tomar (PI), Amount Rs. 31.54 Lakh.

UGC, 2017-2019, entitled, “Detoxification of environment persistent organic pollutants primarily pesticides using functionalized nanomaterials” Dr. Poonam (PI), Amount Rs. 10 Lakh.

Department of Science and Technology, 2016-2019, entitled, “Thio-click approach for the synthesis of stable glycomimetics and chiraloxathiacyclic ethers” by Dr. Poonam (PI), Amount Rs. 36.816 Lakh.

Department of Biotechnology, 2018-2019, entitled, “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” by Dr. Kalawati Saini (PI), Ms. Nutan Rani (Co-PI), Dr. Smriti Sharma Bhatia (Co-PI), Amount Rs. 8 Lakh.

### **Patent Filed/ Granted**

Dr. Monika Tomar filed for grant of two patents:

Indian Patent (Filed on 27 February 2019): 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 (Filed on 27 February 2019): 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 and Workshops Organized**

Dr. Mukul Priyadarshini conducted a workshop session in ‘Bilingual Teaching: The Languages of Classroom Discourse’ in a Faculty Development Programme (FDP) on Effective Teaching and Learning Practices at SPM College, University of Delhi on 24 September 2018.

Dr. Seema Rani conducted a post-workshop tutorial on Advances in Remote Sensing for Agriculture, NRL Auditorium, Indian Agriculture Research Institute, Pusa Campus, New Delhi from 21-22 February 2019.

Dr. Reema Bhatia and Dr. Balwant Kaur organized an Inter-college Workshop on Career Training in collaboration with Enable India and Help the Blind Foundation at Miranda House, University of Delhi from 11-12 February 2019.

Dr. Reema Bhatia and Dr. Balwant Kaur organized an Inter-college Workshop on Sensitization and Awareness on the RPWD Act 2016 in collaboration with the American India Foundation at Miranda House, University of Delhi on 14 March 2019.

“The Bonsai Workshop” organized under the aegis of DBT Star College Scheme on 22 March 2018. Ms. Syama Balbir, former President of Indian Bonsai Association, delivered an insightful lecture and conducted a hands-on workshop on Bonsai making and maintenance.

Department of Zoology organized a two days student workshop on "Fundamentals and Advanced concepts of Flowcytometry" from 2-3 August 2018.

NSS organized a workshop in collaboration with TEACH FOR INDIA on 5 October 2018

### **Conferences organized**

Symposium on Empowering Women in Chemistry as a part of the Centenary Celebration of the International Union of Pure and Applied Chemistry (IUPAC) on 12 February 2019.

Science Conclave 2019 for undergraduate and postgraduate INSPIRE scholars sponsored by Department of Science and Technology (DST) and students also got an opportunity to prepare and present scientific posters which were on display during the Conclave on 16-18 January 2019.

Miranda House, University of Delhi and Institute of Bioresources and Sustainable Development (IBSD), Manipur jointly organised Conclave on Biodiversity for Every One's Life on 31 August 2018.

### **Seminar /Conferences Presentations**

Shweta Sachdeva Jha presented a paper entitled 'Writing Histories of Childhood in India Through Children's Picture Books (1950 – 2018)', at the National Conference on 'Between History and Literature: Enquiries into Colonial Modernity' organised by Department of English, University of Hyderabad and Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata during 17-19 March 2019.

Snigdha Singh presented a paper entitled, 'Women in transition at Mathura Sanctuaries' in World Conference on 'Women through the Ages' held at Amity University, on 23-24 January 2019.

Monika Sharma presented a paper entitled "Mycobacterium tuberculosis latency associated protein Rv2628 targeting host mitochondria may have role in persistence of pathogen" at the A3 Tuberculosis: Mechanisms, Pathogenesis and Treatment conference held at Banff, Alberta, Canada on 17 – 21 Jan 2019.

Anita Kumari presented a poster on Schiff base as green and efficient corrosion inhibitor for mild steel in 0.5 M H<sub>2</sub>SO<sub>4</sub> medium: electrochemical and surface morphological studies in the 1st International Conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019) organized by the Center for Global Health, Hansraj College, University of Delhi and Loyola University Chicago Stritch School of Medicine, USA from 25-26 February 2019.

Bharati Jagannathan presented paper entitled "Women's Devotion, Women's Lives: Interrogating the Poetry and Narratives of Āṇḍāl and Kāraikkāl Ammaiār", at the Dept of Religious Studies, University of Virginia, Charlottesville during 5 December 2018.

Bijayalaxmi Nanda presented a paper on 'Rights of Girl Child' at WSDC, University of Delhi in the Faculty Development Program 'Gender Sensitization and Human Rights during 15-21 October 2018.

Amita Rana and Dr. Neeru Yadav presented a paper World of Fitness in Twenty First Century in the International Conference on Olympics and Indian Values in Global Context organized by Ministry of Youth Affairs and Sports, Department of Physical Education and Sports and Kirori Mal College during 25 -27 September 2018.

A.R. Sitalakshmi presented a paper titled Students conceptions of phase changes: effect of an intervention incorporating constructivist pedagogy to facilitate conceptual development at the 25th IUPAC International Conference on Chemical Education, ICCE 2018 organized by IUPAC and University and Sydney at Sydney, Australia during 10-14 July 2018.

Sharmila Purkayastha presented a paper titled Literature: Contemporary Perspectives in Postcolonial and Diasporic Literature and Theory at the Universiti Sains Malaysia in Penang from 25-26 July 2018.

Saswati Sengupta presented a paper entitled "Literature: Contemporary Perspectives in Postcolonial and Diasporic Literature and Theory" at the Universiti Sains Malaysia in Penang, 25-26 July 2018.

### **National/ International MoUs**

MoUs with Hoge School Utrecht University of Applied Sciences the Netherlands; George Washington University, Washington DC; Lynchburg College, USA; Ontario Universities, Canada; International Research Group on Physics Education (GIREP).

MoUs with NII (Science Setu Programme); Google Ltd; Use google apps for education; Weekendr (Mobiquel); Nehru Arts and Science College, Coimbatore; ICT Academy; Tata Power Delhi Distribution Ltd. for Student project; Indian Reprographic Rights Organisation.

### **Students under Exchange Programmes**

Outbound: SP Jain School of Global Management: Initiative at Miranda House (2 students in December 2018); Utrecht Business School on Strategic Management and Culture from 4–8 June 2018 (1 faculty and 9 students)

Inbound: Utrecht Business School 28 January – 1 February 2019 (7 students and 1 Faculty)

### **Placement Details**

Number and percentage of students placed: 27 out of 250

Number of companies visited for campus recruitment : 16

### **Extension and Outreach activities**

MH Vatavaran, the Environment Society of college organized a Cleanliness Drive in collaboration with NSS, Miranda House to collect paper waste from the college campus and surrounding areas spread during campaigning for the Delhi University Students' Union (DUSU) elections. The Fourth Delhi Youth Summit on Climate Change (DYSoC) 2018 was organized jointly by Delhi Greens and Miranda House and hosted by Miranda House on 3 and 4 October 2018. A Musical theatre organized by SPIC MACAY, Miranda House was performed by Sunaad, in the college auditorium. Sunaad is a comprehensive group of singers based in Bangalore composed of school going, retired, hobbyists, home makers and working professionals with a common love for Hindustani classical music. KPMG Business Ethics Grant two of its projects - Zaffran and Ikhtiyar. Projects under KPMG led programme Enactus aim at making economically marginalized communities, especially women, independent; Ikhtiyar is looking at removal of water hyacinths, damaging aquatic species under the river surface.

### **Library Development**

The total sanctioned budget was Rs. 16,78,900. In the academic year 2018-19, 962 volumes of books were added. "MAISON" the Library Annual Fest was organized on 7 – 8 February 2019.

### **Faculty Strength**

Permanent - 134

Ad hoc - 63

### **Financial Allocation and Utilization**

Grant sanctioned: Rs.53,58,50,000/-

Grant utilized: Rs, 52,89,99,000/-

### **Other Significant Information**

About 32 students are registered currently for Ph.D with 16 teachers. Students have been selected for internships in the best institutes. As many as 20 science students did summer internship at Vikram Sarabhai Space Centre, ISRO, Chennai Mathematical Institute, NIUS, Tata Institute of Fundamental Research,



Physics Research Laboratory, Indian Institute of Science, Inter-University Accelerator Centre, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR). Of the graduating class, 10 students have received admissions in well recognized universities abroad with scholarships. Swareena Gurung, has bagged a Rs. 34 Lakh scholarship from Bengal government to pursue a post-graduate course at the School of Oriental and African Studies (SOAS) at the University of London.

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## MOTILAL NEHRU COLLEGE

### Major activities and achievements

College organized an entrepreneurship programme the students of Departments of Mathematics and Physics by National Institute for Entrepreneurship and Small Business Development (NIESBUD) under Ministry of Skill Development and Entrepreneurship on 21st and 22nd February, 2019. The aim was to motivate the students to start up their own business.

Two batches comprising of Eighty-eight students of the College from diverse courses successfully completed their training under the 'PM YUVA YOJANA.' Certification from the Ministry of Skill Development and Entrepreneurship, Government of India, is in the process.

### Honours/Distinctions

Pranjal Protim Barua, awarded Doctorate degree in English Literature from the Centre for English Studies, Jawaharlal Nehru University on 11 September 2018

Dr. Manish Kumar, awarded Best Thesis Award -2018 presented by Association of Carbohydrate Chemists and Technologists, India (ACCTI) in CARBO-XXXIII Conference held at Indian Institute of Science Education & Research (IISER) Kolkata during 19-21 December 2018.

Dr. Om Prakash Gusai, Elected as EC member of All India Accounting Association, in 41<sup>st</sup> Annual GBM held at Manipal University, Jaipur during 5-6 January 2019.

Nikhil Khanna, Awarded Ph.D. degree in Mathematics in 95<sup>th</sup> annual convocation of University of Delhi held on 19 November 2018.

Dr. Richa Jain received First prize for poster presentation in the International Conference on Metamaterials and Plasmonics – 2019 (PMP-2019) held in IIIT Noida from 14-16 February 2019

### Students with Distinctions

Gaurav Tokas of B.A (Programme) III year won silver medal in inter-college swimming competition

Dharamveer Yadav of B.A (Sanskrit.) I year won gold medal in inter college Wrestling competition.

Jai Kumar of B A (Programme) 1 year won Bronze medal in Inter-College Boxing competition

Jayant Dwivedi of B.Sc. (Hons) Chemistry I year won bronze medal in Inter-college Judo competition.

Roin Saikai of B. Com (P) I year won Gold medal in Inter-college Taekwondo competition.

### Publications

Jarrah, A.M., Khanna, N. (2018). Some results on vanishing moments of wavelet packets, convolution and cross-correlation of wavelets, *Arab Journal of Mathematical Sciences*

Gusai, O.P. (2019). Concept building approach to Cybercrimes and Cyber Laws. ISBN-13:978-93-86668-31-8 (Print) and ISBN: 1093-86668-31-9 (E-book), published by CENGAGE learning India Pvt. Ltd (www.cengage.co.in).

Poumai, K.T., Kaushik, S. K. (2018). Greedy algorithms and approximation properties for frames in Hilbert spaces, 17(1), 73–94.

Khanna, N., Kaushik, S.K. (2019). Wavelet packet approximation theorem for  $H^r$  type norm, *Integ. Transf. Special Funct.*, 30 (3), 231-239.

Panwar, K. (2018). Caste and Gender in Sanskrit Studies' in “**वागार्थ**” (An International Journal of Sanskrit Research) ISSN: 2456-9186, Vol. II, 9II), Page 1-7, link -<http://cphfs.in/research.php>

Panwar, K. (2019). Role of the Caste-System in Dharmashastra (religion): An Analysis in Vidyawarta, Peer reviewed International Publication, , 29(02). ISSN: 23199318

### **Seminars Organized**

National seminar, Managing in the Times of Socio-Economic Change, 8 March 2019.

The History Society ATEET organized two lectures under the International Lecture Series on ‘Orientalism and Indian History’ on 1 February 2019. The lectures were delivered by Eugenia Vanina, Professor, Centre for Indian Studies, Institute of Oriental Studies, Russian Academy of Sciences, Moscow, Russia; and Rameshwar P. Bahuguna, Professor, Department of History and Culture, Jamia Millia Islamia, Delhi.

### **Seminar/Conference Presentation**

Devendra Jarwal presented a paper entitled “Evolution of Unconventional Entrepreneurship in the Post Liberalised Era” in the 71<sup>st</sup> All India Commerce Association hosted by Osmania University Hyderabad held from 20-22 December 2018.

Kalpna Malik presented a Paper entitled, ‘Partnership in the *Ardhakathanaka*’, at the Seventy-Ninth Session of the Indian History Congress organized at the Barkatullah University, Bhopal, M.P. held during 26-28 February 2019.

Ritu Kathuria presented a paper entitled "On Slant Weighted Toeplitz Operators" in the 4th International Conference on Recent Developments in Theory, Computation and Application of Differential Equations" held at South Asian University, New Delhi during 21-23 January 2019.

Nikhil Khanna delivered an invited talk (via Skype) titled, “On Hilbert transform and related integral transforms of wavelets” in the ‘51 National Congress of the Mexican Mathematical Society’ organized by the Juárez Autonomous University of Tabasco, Villahermosa, Mexico from 21-25 October 2018.

Nikhil Khanna delivered an invited talk titled, “Hilbert transform of wavelets and their applications" in the ‘Mini Symposium in Mathematics’ organized by the Department of Mathematics, Deen Dayal Upadhyaya College, University of Delhi from 22 -23 February 2019.

Kaushal Panwar presented a paper entitled, “Right of Shudra to Acquire Brahmavidya: An Analysis” in 17th World Sanskrit Conference, 2018 held at the University of British Columbia, during 9-13 July 2018.

Kaushal Panwar presented a paper entitled, “The Role of the Caste System In Dharmashastra (Religion): An Analysis” in 7<sup>th</sup> International Conference on ‘Human Science’, held at the University of Abat Oliba CEU, Barcelona Spain during 2-3 November 2018

### **National/International MoUs Signed**

IGNOU has granted Study Center at Motilal Nehru College under Regional Center (RC) -3 and started the same since last academic session.

### **Extension and Outreach Activities**

In view of the vision statement of Motilal Nehru College to empower all sections of society and to address the clarion call of the earnest need for Women Empowerment, the NCWEB center has stood by its

commitment of empowering the young minds. The NCWEB center, Motilal Nehru College proudly reports that first batch of our B.Com (Prog) and B.A. (Prog) students successfully completed their graduation. In the span of last three years, apart from serious academic engagements, the center has created a plausible space for overall development of students aiming at holistic personality development, awareness about social issues, understanding of the multi-cultural facet of our society and the nation at large. The students' participation is encouraged in various cultural functions across the University circuit.

### **Library Development**

Library is presently subscribing to about 104 periodical, magazines. News papers of Scientific and General Interest. Library is functioning under fully computerized environment and using 'NETLIB' Software. Library continues to follow the Open Access system which affords greater convenience to the students. The Library has an up-to-date on line catalogue (OPAC) of its holdings for all the users. UGC is facilitating the availability of E-books in the colleges through the "National Library and Information Services infrastructure for scholarly content (N-List)" Programme funded by MHRD, Government of India. The programme facilitates access about 97000 + e-books and 6000 + e-Journals to all those who access that programme in the college Library.

### **Faculty Strength**

Total sanctioned: 138

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 34,19,70,000/-

Grant utilized : Rs. 33,37,47,000/-

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## **MOTILAL NEHRU COLLEGE (EVENING)**

### **Major activities and achievements**

The cultural and departmental societies have organised successful academic and extracurricular activities throughout the year. Students also made the college proud by winning many inter-college as well as national level competitions. Theatre society –Astitva – came first at annual Techno-cultural festival of B.M.L Munjal University Gurgaon, and annual theatre festival of Kalindi College. North-East Society won cultural dance programme at North East Festival of Zakir Hussain College. Our sports students have been excelling and bringing laurels to the college. Anubhav Kumar, BA Programme represented Delhi at National Senior Hockey Championship. Ashish Yadav, BA Programme represented Delhi for Santosh Trophy – National Football Competition. Five of our students represented Delhi University at all-India Inter-University North Zone Football Competition. At Reliance Foundation Youth Sports College Football Competition, MLNCE stood first out of 128 colleges.

### **Honours/Distinctions**

Dr. Rakesh Sinha has been nominated Member of Parliament, Rajya Sabha by the President in July 2018.

Dr. Rajneesh Kler's research paper has been adjudged the best paper at the 8<sup>th</sup> Asian Management Research and Case Conference organised at UAE University from March 24-26, 2019.

Dr. 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.

Pushpa Meena has been awarded her Ph.D by Department of Hindi, University of Delhi on November 19, 2018.

Yogendra Kumar Sagar has been awarded his Ph.D from Sunrise University, Rajasthan on December 4, 2018.

The cricket team of teachers of MLNCE has won the Shahid Bhagat Singh Memorial Tournament 2019,

University of Delhi.

Dr. R.N. Tripathy received visiting Scholarship at University of Leeds, UK, 2019, under Commonwealth Project.

### **Journals**

Number of collegeteachers serving as Editor(s)/Members(s) of Editorial Board : 01

### **Research Projects**

ICSSR under IMPRESS Scheme of MHRD, Govt. of India, .2019-2021, entitled, “Impression & Oppression of Swachh Bharat Mission, A case study of Sawai madhopur district of Rajasthan & Nalanda district of Bihar” by Dr. P.k. Bairwa (PI), Dr. Pintu Kumar(Co-PI)

### **Seminar/Conference Presentations**

Vidhyashkar Singh presented a paper entitled, “Aadhunik Hindi Kavita aur Buddha dharma” at National Seminar organized by Central Institute of Higher Tibetan Studies, Sarnath Varanasi on 12-13 December 2018.

Vidhyashkar Singh presented a paper entitled, “Aadhunik Hindi Kavita aur Rasthriya Andolan” at International Seminar organised by Hindu Girls College, Kurukshetra in collaboration with Shakespeare Association India on 14-15 December 2018.

G. N Trivedi presented a paper entitled, “Indian Democracy: Contested Terrain of the Political” at the Department of Political Science, South Campus, University of Delhi.

Rajnish Kler presented a paper entitled, “Indian Stock market Sustainability: Role of Domestic and Foreign Institutional Investor” at the 8<sup>th</sup> Asian Management Research and Case Conference organised at UAE University from 24-26 March 2019.

Rajnish Kler presented a paper at the Sixth Northern Regional Social Science Congress at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, organized from 18-20 January 2019.

Rajnish Kler presented a research paper at the PAN IIT International Management conference at IIT Roorkee held from 30 November -02 December 2018.

Kanharam meena presented a paper entitled "Sufi premakhyano mein loktatvo evam sanskriti last samavesh" in international seminar on Indian vernacular literature held at Atma sanatan dharam college, DU.

### **Extension and Outreach activities**

Money donation programmes for Kerala and Nagaland natural disasters were organized by NSS students in September 2018. “Swachta hi sewa” rally was held in South Campus by NSS students– 26-27 September 2018. NSS students set up a Teaching Camp in Vasant Gaun for 25 days, starting from 01-02-2019 and a Blood donation camp in collaboration with AIIMS on 8 April 2019.

### **Library development**

Total Budget Expenditure: Rs 6,08,000/-

Books added: 1240

Journals subscribed: 07

Magazines subscribed: 07

Newspapers subscribed: 12

Membership of N-List taken.

### **Faculty Strength**

Total Permanent : 35

Total Ad-hoc: 39

### **Financial Allocation and Utilisation**

Grant sanctioned : Rs. 29,04,44,000/-

Grant utilized : Rs. 24,60,04,133/-

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## **P.G.D.A.V. COLLEGE**

### **Pannalal Girdharilal Dayanand Anglo Vedic College**

#### **Honours/distinctions**

Dr. Ashwani Mahajan received the Skoch Challenger award for outstanding contribution in the field of Economics along with Shri Suresh P. Prabhu, Minister of Commerce and industry, Govt. of India.

Dr Urvashi Sabu was awarded the Charles Wallace India Trust Translation Fellowship to the British Centre for Literary Translation, University of East Anglia, Norwich, UK, for a period of ten weeks from October to December 2018. Surender Singh, Assistant Professor, Commerce Department was awarded Ph.D in Commerce

C.L.Singh received his doctorate on Impact of Globalization on Sovereignty: A Study of India and China in March 2019.

Shri TarakSinha (ex-employee), who devoted his life to cricket coaching was conferred Dronacharya award, by the President of India, this year.

#### **Students**

Anusha of B Com program represented India in Yoga and received Gold medal in Asian Championships.

Pradeep Chaurasia, PH category student was conferred VC Gold Medal for PH in science category for scoring highest marks in B Sc Gen Mathematical Sciences.

#### **Research Projects**

ICSSR, entitled, "Indo-China Trade Imbalance by Dr Ashwani Mahajan (PI),

#### **Seminars Organised**

Dept of English in collaboration with IQAC, PGDAV College organized an interdisciplinary international conference on 'The 21st Century Indian Woman: Representations Department of Economics and the Department of Commerce and Expressions' on 12 -13March, 2019.

Organized a Faculty Development Program (FDP) on Contemporary Business Environment on 10-11 December 2018.

#### **Publications**

Agarwal, A. (2019). Prachin Bhartiya Paramparamerein Samajik Sahishnuta Evam Samanvay' *Puraparvaha*, 19: 1-2.

Jha, M.K., Verma, A. (2018). Construction of Balanced Second-order Response Surface Designs within Split-plot Structure. *International Journal of Agricultural and Statistical Sciences* 14 (2): 1-9.

Singh, C.L. Impact of Globalization on the Inclusive Development of Women in India: Prospects and Challenges in the 21st Century in *Patliputra Journal of Indology*.

Singh, C.L. 'Changing Focus of Indian Foreign Policy led by PM Narendra Modi in the Era of Globalization' *World Focus*.

### **Seminars/Conferences**

Shashi Nanda presented a Paper titled "Ensuring a Sustainable Competitive Edge through Service Quality: A Special Focus on Full Service Restaurants" at Amity College of Commerce & Finance, Amity University, Noida in the International Conference on 'Rethinking Innovation: Role of Management and Technology in Modern Business Practices' held on 14-15 March 2019.

Khushboo Aggarwal presented a paper entitled 'Causal Relationships between Economic Growth, Stock Price and Exchange Rate: Evidence from BRICS Countries' in INBUSH Era World Summit 2019 organized by AIBS, Amity University, 20-22 February 2019.

Varun Bhushan presented paper entitled 'Sustainable Demographic Dividend' at the Second International Conference on Business, Economics and Sustainable Development (ICBESD 2019) organized by TERI School of Advanced Studies in Collaboration with the Government of India Rooftop Solar Technical Assistance Program supported by The World Bank held during 17-18 January 2019.

Varun Bhushan presented paper entitled, "The Female Demographic Dividend in India" in the International Conference on The 21st Century Indian Woman: Representations and Expressions, jointly organised by the department of English and IQAC, PGDAV College, on 12-13 March 2019.

Ashwani Mahajan and Phool Chand presented a paper entitled 'WTO compliant protection with Special reference to China' at Pacific Business Review International, 2019.

Vandana Agrawal, presented a paper entitled '*a powerful desire to run out and pick up a girl... Sexual violence and Beyond*' at the International Conference on "The 21st Century Indian Woman: Representations and Expressions", jointly organized by the Department of English and IQAC 12-13 March 2019.

Arti Mathur presented a paper titled 'Women Inside and Outside in Contemporary Historical Fiction' at the international conference on 'The 21st Century Indian Woman: Representations and Expressions' jointly organised by the Dept of English and IQAC, PGDAV College, 12-13 March 2019.

Neha Kishore presented a paper entitled, 'Social Institutions, Cultural Practices and Social Change' at All India International and Area Studies Convention, organised by Jawaharlal Nehru University (JNU) Of Delhi on 30 January 2019.

Abhishek Srivastava presented a paper entitled, "Philosophical Foundation of India's foreign policy" at Gautam Bhudha University, Noida.

M.K. Jha presented a paper titled 'Causal Relationships between Economic Growth, Stock Price and Exchange Rate: Evidence from BRICS Countries' in INBUSH Era World Summit 2019 organized by AIBS, Amity University during 20-22 February 2019.

**Number of college teachers serving as Editor(s)/Members(s) of Editorial Board 01**

### **Extension and Outreach Activities**

NSS unit of the college runs an outreach program to teach young kids in the nearby village area.

### **Placement Details**

Number of students placed : about 300

Number of companies visited for campus recruitment : 10

## **Library Development**

Currently, there are 98,937 books and 4395 periodical volumes in the library. 69 magazines and 19 newspapers are regularly subscribed for the knowledge and reading pleasure of students and faculty alike. The college provides needy and meritorious students with book bank facilities, as well as a Students' Aid Fund (SAF). The college makes available numerous assistive devices and software like Braille, S/N JAWS, ANGEL DAISY Reader, MP3 Recorder, Laptops, Zoom X Instant Text Reader, Lex Portable Camera etc for visually impaired students. It also provides them Braille Library Access and sound recording facility, for which five computer stations have been established.

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## **P.G.D.A.V. COLLEGE (EVENING)**

### **Major activities and achievements**

The college, this year, marked the 60<sup>th</sup> year of its establishment with a Golden Jubilee celebration graced by the presence of the Honab'le Vice-President of India, Shri Venkaiah Naidu. This is, indeed, a matter of great honour and pride for the college. On the occasion of Annual Day our Chief Guest of honour was Commandant Chetan Kumar Cheeta. He represents those defence forces who keep our borders and our democracy safe.

### **Publications**

Gupta, D. (2018). Pravasi Hindi Kahani: Mul Samvedna' in '*Antarrashtriya Paridrishya Me Hindi Sahitya Anamika Publishers and Distributers Pvt. Ltd.*, New Delhi.

### **Seminar Organized**

Seminar, Art of Mind Control organized organized, 27 March 2019.

Seminar, CCC Sankalp 2 Days Camp organized, 15-16 October 2018.

Seminar, Commerce Seminar Commantra & Youth Conclave organized on 8-9 February 2019.

Seminar on Yoga Club Meditation & Stress Management organized on 2 February 2019.

### **Placement details**

Number of students getting successful placements: 132

Number of Companies/Industries coming for campus recruitment: 18

### **Extension and Outreach work**

Number of camps organized in the surrounding areas: 01

Number of people enrolled/covered in the camps: 23

Number of students who worked in the camps: 20

Total number of hours dedicated to these camps: 48

### **Library Development**

Total budget: Rs 6,25,000/-

No. of books added: 727

Journals subscribed : 68

### **Number of faculty Permanent/ Temporary/ Ad-hoc**

Permanent - 39

Ad-hoc - 36

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 21,01,51000/-

Grant utilized: Rs.20,41,94,504/-

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## **PANDIT DEENDAYAL UPADHYAYA NATIONAL INSTITUTE FOR PERSONS WITH PHYSICAL DISABILITIES (DIVYANGJAN)**

### **Major Activities and Achievement**

This Institute runs Bachelor of Physiotherapy (BPT), Bachelor of Occupational Therapy (BOT) and Bachelor of Prosthetics & Orthotics (BPO) courses under the financial control of Ministry of Social Justice and Empowerment, Government of India. The Institute had started Master programme in Prosthetics & Orthotics (MPO) since the academic session 2017-18. Further we are in process of starting post graduate courses in Physiotherapy and Occupational Therapy as well. The Institute actively participated and assisted Ministry of Social Justice and Empowerment for successful conduction of National Award Ceremony to the differently able on 3 December, 2018.

### **Publications**

Arya, K.N., Pandia, S., Vikas, Aggarwal, G.G., Asthana, A. (2018). Post-Stroke Visual Gait measure for Developing Countries: A Reliability and Validity Study. *Neurology India*, 67(4): 1033-1040.

Arya, K.N. (2018). Evolution of Motor Therapies in Stroke Rehabilitation: An Eternal Path. *Neurology India*, 66: 1303-5.

Arya, K.N., Pandian, S., Vikas, Puri, V. (2018). Mirror Illusion for Sensori-Motor Training in Stroke: A Randomized Controlled Trial. *Journal of Stroke & Cerebrovascular Disease*. 27 (11): 3236-3246.

Batra, M., Batra, V., Agarwal, A. (2018). Regulating developmental parameters in children with Rickets having lower extremity angular deviations. *Indian J Occup Ther*, 50: 81-5

Vimal, A.K., Swami, P., Anand, S., Singh, U., Bhasin, S., Joshi, D. (2019). Search algorithm for optimal damping parameters of transfemoral prosthetic limb. *Applied Mathematical Modelling*, 73: 356-368.

Vimal, A.K., Godiyal, K.A., Singh, U., Bhasin, S., Joshi, D. (2019). Transfemoral amputee's limit of stability and sway analysis during weight shifting exercise with a vibrotactile feedback system. *Somatosensory & motor research*.14: 1-10.

### **Research Projects**

Project, entitled, "Identifying and modulating establishment of laterality in children with developmental disabilities".

Project entitled, "Building Sensorimotor Framework for Play Engagement for Sensorimotor & Socio-emotional Development in Children with Developmental & Multiple Disabilities"

### **Seminar Organized**

Management of Lymphedema on 01 February 2019.

Vestibular Rehabilitation on 16 February 2019.



Effects of advanced and evidence based physical therapy Rehab. (Electro and exercise therapy) in different muscels related neurological conditions on 01 March 2019

### **Conferences Organised**

5-day Refresher Program on Research Methodology in the field of Disability Rehabilitation & Special Education was organized during 20 to 24 February 2019.

### **Seminar/Conference Presentations**

Kamal Narayan Arya & Shanta Pandian presented a paper, entitled, "Ultrasonography-Based Management of the Shoulder Subluxation in Stroke: A Case Series" in 55<sup>th</sup> Annual National Conference of All India Occupational Therapist Association held at Nagpur during 16-18 February 2018.

Meenakshi Batra presented a paper entitled, "Psychosocial and functional implication of facial asymmetry in facial palsy" at Annual National Occupational Therapy Conference at PGIMER, Chandigarh from 08-10 February 2019.

Meenakshi Batra was felicitated by Indian Science Congress for presenting Research Paper entitled, "Modulating Posturo-gait Dynamics using NFDR in Children with lower extremity gait deformities" at its 106<sup>th</sup> Session/Conference Indian Science Congress Association( ISCA) held on 03 July 2019 at Jalandher , Punjab.

Shivani Sharma on "Upper limb Orthotics in SCI" in Evidence based orthotic management of spinal cord injury patients at ISIC, Delhi.

### **National /International MoUs Signed**

PDUNIPPD MoU signed with ISRO towards designed and development of artificial knee joint and foot for Person with Physical Disabilities in collaboration with ISRO.

### **Other Institutional Collaboration**

The Institute has renewed the collaboration with NSIT Dawrka and MAMC Delhi for regular Engineering and Medical classes of its students.

### **Placement Details**

Number and percentage of students placed : BOT 100% and BPO 92%

Number of companies visited for campus recruitment : BOT 14 and BPO 28

### **Extension and Outreach Activities**

The Professionals and faculties were deputed to conduct rehabilitation camps for persons with disabilities (Locomotor) though its outreach activities and total 02 Nos. of rehabilitation camp were conducted to distribute Prosthetic and Orthotics appliance to the Persons with Physical Disabilities across the country. Successfully completed Assessment Camp with team members for Leprosy affected persons at Haridwar in the month of Feb. 2019.

### **Library Development**

Total budget (2018-19): Rs. 25,000,00/-; Total no. of books: 14033; Expenditure on Professional or Non Professional Books: Rs. 10,85342/-; No. of Professional Foreign Journal (Subscription): 11; Expenditure of Journals: Rs. 3,59,436/-; Library Users : 26714. The Library is providing Reference Service, Internet, Printout & Photocopy facility to its users as per library rules.

### **Faculty Strength**

Total Permanent : (BPT) 03 and (BOT) 15 and BPO & MPO11

## **Financial Allocation and Utilization (Unaudited)**

Grant sanctioned : Rs. 2872.80 Lakh

Grant Utilized : Rs. 2682.38 Lakh

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## **RAJDHANI COLLEGE**

### **Major Activities and Achievements**

The year 2018-2019 has been a historic year in terms of academic and co-curricular achievements. The College has been assessed and accredited B++ grade by the NAAC on securing CGPA 3.00. The College has always sincerely endeavoured to meet the infrastructural needs of the academic and other equally important engagements of the teaching, non-teaching staff and students, thus, a large scale addition to the existing infrastructure has been done to make it more efficient. Numerous Lectures, Workshops, Seminars, and Conferences were organized this year. The students showed their excellence not only in field of academics but also emerged as rising stars in extra-curricular and sports activities. *Allahu Akbar*, Trayambakam's street play production of the year 2019 showcased case of terrorism in India and won accolades across the Delhi circuit. Chaitanya, the Debating Society organized VICHAAR MANTHAN 2018 Annual National Conventional debate, the topic for which was *Did India do justice with Gandhiji?*

### **Honours/ Distinctions**

Dr. Jasvir Tyagi was invited as a poet in Amar Bharti Sahitya Sanskriti Sansthan, Ghaziabad on 3 March 2019.

Mr. Sidheshwar Prasad Shukla is nominated as board member of ESIC, as an expert on Labour Issues by the Government of NCT of Delhi.

Dr. Umesh received Best Teaching Assistant Runner Up Prize of Department of Mathematics, King's College London, United Kingdom.

Dr. R.D. Sharma was invited as a Resource Person by the Department of Mathematics, Guwahati University, Assam for a two-day workshop on 15-16 March 2019.

Dr. Rachna Sethi was elected President of FORTELL (Forum for Teachers of English Language and Literature), an autonomous registered body of English professionals in September 2018.

Dr. Barun Kumar Mishra was invited as an expert of Aviation English by Airport Authority of India to train and evaluate the Air Traffic Controllers for working proficiency of English Language.

### **Students Distinctions**

Hemant Yadav of B.A (Programme) II year, won 3rd Positions All India University Boxing Men Tournament 2019 in 75kg weight Category held in Janardan Rai Nagar Rajasthan Vidyapeeth University - [JRN RVU], Udaipur, Rajasthan during 21- 28 February 2019.

Rambharose of B.A. (Hons.) History II Year, won Bronze Medal in Para National Judo Championship 2018-19.

*Jai Hind*, a play prepared by the Trayambakam Society of the college, won first position at IIT Roorkee's THOMSO'18, Northcap University's MOMENTUM'18 and Kalindi College's MITRAKSHAR'18

Simran of Sc. (H) Chemistry II year- received Dr. N. K. Anand Memorial Prize

Navneet Anand of B.Sc. (H) Physics III year received Dr. S. S. Rao Memorial Prize

Rahul Dobhal of B.Sc. Phy. Sc. (Chemistry) I year was awarded with Smt. Krishnawati Gautam

## **Publications**

Ghosh, R, Latha, K. Gupta, S. (2018). Interest Rate Sensitivity of Non-Banking Financial Sector in India. *Vikalpa: The Journal for Decision Makers*, 43 (3), 152-170.

Gopal, K., Raja, M. A., Gupta, D. N., Avinash, K., Sharma, S. C. (2018). Laser-pulse shape effects on magnetic field generation in underdense plasmas. *Indian Journal of Physics*, 92(7), 919-925.

Kaushik, R., Khan. I., Saini, M.K., Sadakane, M. (2018). Synthesis and characterization of carbonate encapsulated ytterbium- and yttrium- containing polyoxotungstates. *Acta Cryst.*, C74, 1355-1361.

Kumar, S. (2018) Performance analysis of Image Steganography Schemes based on different Transform Domains. *International Journal of Management, Technology And Engineering (IJMTE)*, 8, (X), 2810-2828.

Lumb, S., Lumb. S., Prasad, V., Sugny, D. (2018). Effect of electric field on thermodynamic properties of confined molecules. *Chemical Physics* 510, 37–46.

Silotia, P., Giri, R., Prasad, V. (2018). Spectra of Distorted Quantum Ring in External Fields, *Indian Journal of Pure & Applied Physics*, 56, 941-948.

Sethi. R. (2018). Out of Place' Women: Exploring Gendered Spatiality in Delhi. *Routledge Journal of Postcolonial Writing*, 54(3). 398-410.

Sharma, R.D. (2018). Dual topologies for function spaces over Cuy (Y, X). *International journal 'Scientific Studies and Research Series'-Mathematics and Informatics*, 28, 41-52.

## **Journals**

Number of college teachers serving as Editor(s)/ Member(s) of Editorial Board: 2

## **Seminars Organised**

The Extension Lecture Series Committee organized a National Seminar, sponsored by the Indian Council for Social Sciences Research (ICSSR), on the theme “Women Empowerment in India: History and Politics” at Rajdhani College, on 10-11 January 2019.

The English Literary Association organized a one-day National Seminar on “From Text to Performance: Drama in the Classroom and Beyond” on 27 February 2019.

The Equal Opportunities Cell organized an Interdisciplinary National Seminar on “Dimensions of Disability Studies: Evolution and Prospects” on 6 March 2019.

The Department of Mathematics organised a talk on ‘Mathematics and Music’ by Prof. Subhendu Ghosh, Head & Professor, Department of Statistics, South Campus, University of Delhi, New Delhi on 12-18 February 2019.

## **Conferences Organised**

The Environment and Related Issues Committee, in collaboration with the Department of Environmental Studies, organized a National Conference on “Emerging Challenges of Environmental Health, Society and Policies-2019” on 15-16 February 2019.

## **Seminar/ Conference Presentations**

Sunil Babu presented a paper entitled, “Gender Equality Unlocks the Power of Nations” at the 4th World Conference on Women’s Studies organized by World Center for Women’s Studies, New York City, U.S.A from 1-3 November 2018.

Sachida Nand Jha presented a paper entitled, "Gandhi and Indian postcolonial Moment" in British Commonwealth and Postcolonial Studies Conference facilitated by Georgia Southern University, Georgia, USA on 16-17 February 2019.

Suman Kumar presented a paper entitled "Article 35A, 370 and Jammu and Kashmir" in the One Day National Seminar on "Kashmir Problem: The Way Forward" held at R.K.S.D. (P.G.) College, Kaithala, Haryana, 16 March 2019.

Sonia Lumb presented a paper entitled, "Laser Wakefield electron acceleration by shaped laser pulse in plasmas" in International Conference on Photonics, Metamaterial and Plasmonics, Department of Physics and Material Science & Engineering, Jaypee Institute of Information Technology, Noida, 14-16 February, 2019.

Rachna Sethi presented a paper titled "Exploring Politics and Monumentality through Contemporary Literature" at the National Seminar on Literature, Nationalism and Politics in India: Emerging Trends organized by UPSA (United Professionals and Scholars for Action) and Rajdhani College on 22 January 2019.

Aditi Sharma presented a paper titled "Social Reality in Ramdarash Mishra's 'Hocus Pocus'" in the National Seminar on "Hindi Sahitya Mein Vartman: Samaj, Sanskriti aur Rajneeti", organised by the Department of Hindi, Jamia Millia Islamia on 1 March 2019.

Arti Rastogi presented a paper entitled, "Nation, Nationalism and Gandhi" in the National Seminar on "Literature, Nationalism and Politics in India: Emerging Trends", organised by United Professionals and Scholars for Action (UPSA) and Rajdhani College, University of Delhi on 22 January 2019.

### **Placement Details**

Number and Percentage of students placed: 165

Number of Companies visited for Campus Recruitment: 45

### **Extension and Outreach Activities**

NSS unit was active throughout the year with programmes like College Campus Cleaning, Swachhta Pakhwada, Kerala Flood Relief Collection Drive and Slum Area Development, Blood Bond- a blood donor group of college students and Each one teach one initiative to teach children of nearby slums. A Tree Plantation Drive was conducted by NCC cadets on 5 June 2018. Chaitanya, the Debating Society, organized Vichar Manthan 2018, the Annual National Conventional debate, "Did India do justice with Gandhiji?" held on 2 November 2018. The Health and Hygiene Committee organized a free Dental Health Check Up program, in collaboration with Kalra Hospital, Kirti Nagar on 6<sup>th</sup> February 2019 for teaching and non-teaching staff. The B.A. Programme Society had organised a lecture on "Media Ko Jane (Know the Media)" on 26 October 2019.

### **Library Development**

College library has more than 1.35 lakh scholarly books on various subjects and has subscription of 33 newspapers and around 55 magazines and journals. Is also a member of N-List program of UGC INFONET, through which the users of the library can access 6000+ e-journals and 31,35,000+ e-books with remote login facility. Reading room of the library is fully air-conditioned and the library mode is automated. An exclusive fully Air-conditioned reading corner has been introduced for differently abled students and teaching staff, where Braille Books are available and Internet enabled high-speed computers with scanner and printer have been installed.

### **Faculty Sanctioned Strength:**

Permanent - 90

Adhoc - 70

## **Financial Allocation and Utilization**

Grant sanctioned : Rs 366592704 (UGC) + 3700000 ( Govt. Of NCT Delhi)

Grant utilized : Rs. 366592704 (UGC) + 3700000 ( Govt. Of NCT Delhi)

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## **RAJKUMARI AMRIT KAUR COLLEGE OF NURSING**

### **Major activities and achievements**

Rajkumari Amrit Kaur College of Nursing has been providing quality nursing education for the last 72 year. The College offers four regular Programmes i.c. B.Sc.(H) Nursing, M.Sc. Nursing, and MPhil and PhD in Nursing. The revised curriculum for both B.Sc.(H) Nursing and M.Sc. Nursing under semester system is running successfully. College has a Rural Teaching Centre at Chhawla village under RHTC Najafgarh for the purpose of providing objective oriented community health experience and primary health care. College has been nominated by Ministry of Health and Family Welfare for the preparation of 'module 'on National Emergency Life Support for Nurses. College participated in various programs like national organ donation day, world kidney day, perfect health mela etc. The College works in close association in the Ministry of Health and Family Welfare and with various hospitals, health centers and allied agencies.

### **Honours/ Distinctions**

Dr. Harindarjeet Goyal Principal RAKCON represented India at a Traid meeting (International Council of Nursing, International Confederation of Midwives & WHO) in Geneva.

Dr. Daisy Thomas Tutor, Rakcon joined on deputation as a Register of Delhi Nursing Council.

Mrs. Usha Phulara, Faculty Rakcon is elected as state SNA Advisor.

### **Research Projects**

A Study to Evaluate the Effectiveness of Planned Teaching Program on the "Important of Quality of Life" in Cancer Patients in Terms of Expressed Quality of Life Scores, in Selected Hospital of Jabalpur

A Study to Evalutate the Effectiveness of Selected Nursing Interventions in Terms of Physiological Parameters and Selected Post Operative Outcomes Among Patients Undergoing Abdominal Surgery in Selected Hospital of Delhi.

A Study to Develop & Evaluate the Effectiveness of Health Care Package on Adolescent Reproductive Health, Problems & Its Prevention Among Adolescent Girls in Terms of Knowledge & Practice in Selected College Haryana.

A Study to Assess The Effectiveness of An Educational Package on Self monitoring of Blood Glucose Levels and Self Administration of Insulin in Terms of Knowledge and Practice in Children with Diabetes Melluitus in Selected Hospital of Uttrakhand"

A Study to Assess the Stress & Coping Strategies Adopted By the Wives of Alcoholic Pateients and to evaluate The Effectiveness of Planned Teaching Program on Management of Stress for the Wives of Alcoholic Patients in Selected Hospital of New Delhi. A Study to Evaluate the Effectiveness of Structured Teaching Program on Prevention and Management of Post Burn Problems at Home in Terms of Quality of Life, Knowledge and Expressed Practices Among Post Burn Patients in Safdarjung Hospital of Delhi.

### **Conferences Organized**

Conference on "Emerging Role of Nurses in India" was organized from 25 Feb -01 March 2019.

Conference on "Healing Touch in Quality Patient Care" was organized from 11-15 March 2019.

### **Seminar/Conference Presentations**

Harindarjeet Goyal presented a paper entitled, “Exploring Novel Prospects in advanced Nursing & Research” in March 2019

Harindarjeet Goyal presented a paper entitled, “Upscaling Nursing and Midwife Education in India” held in Geneva in May 2018.

Mitali Biswas presented a paper entitled, “Emerging Trends in Psychiatric Nursing” in the month of February 2019.

Mitali Biswas presented a paper entitled, “Therapeutic Touch, Health and well-being” in the month of March 2019.

### **Extension and Outreach Activities**

The Rural Teaching Centre was established in 1950 for the purpose of providing objective oriented rural community health experience to the students. It covers population of Approx, 23,000 and is situated 35 kms away from the college. The centre provides an integrated comprehensive health and family welfare service to the community. Special emphasis is given on MCH services, family planning, immunization, family welfare services, nutrition, adolescent girl’s health and health education programme by the students and staff of rural unit in collaboration with the staff of RHTC, Najafgarh. Staff and students also participated in National Health Programmes like Malaria control programme, Dengue control programme, Revised National Tuberculosis control programme; AIDS control programme, Diarrheal Disease control and Intensified Pulse Polio programme etc.

### **Library Development**

College Library has total 20381 Books.; Foreign Journals: 18; Indian Journals 10; Newspapers: 06; Magazines :07. The total expenditure on books and journals during the period was Rs. 14,30,000.00

### **Faculty Strength**

Total faculty strength : 33

### **Financial Allocation and Utilization**

Total sanctioned: Rs. 13,46,00,000.00(Major Head 2210) and Rs. 30,39,00,000.00(Under major head 4210 (capital)

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## **RAMANUJAN COLLEGE**

### **Major Activities and Achievements**

The college has been sanctioned a sum of Rs.10 crores for building purposes by the University Grants Commission (UGC). The College has signed an Agreement of Academic Cooperation with MCI Management Center Innsbruck, Austria for a period of five years recognizing the benefits to be gained by both institutions through a cooperation in teaching, academic research and operations, promote exchange of students, staff and knowledge within the interests and abilities of each institution. The Teaching Learning Centre (TLC) under the Pandit Mandan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), sponsored by the Ministry of Human Resource Development has conducted 23 programmes and have trained more than 1000 teachers during 2018-19. The Ministry of HRD notified Ramanujan College as the National Resource Centre (NRC) for three disciplines, namely, Human Rights, Environment and Ethics. This initiative is undertaken by the MHRD under the ambit of the Annual Refresher Programme in Teaching (ARPIT).

### **Honours/ Distinctions**

Dr. Ashwani Kumar, Department of Applied Psychology; Dr. Shruti Jain, Department of English and Ms. Zairunisha, Department of Philosophy received their Ph.D. degrees this year.

Ms. Shipra Yadav, Department of Political Science and Ms. Sonia Mudel, Department of Commerce received M. Phil degrees this year.

Dr. Nirmalya Samanta invited as a Resource person for Translation workshop for the UGC-SAP-DRS project on Translating Premchand for the Department of English, Faculty of Humanities and Languages, Jamia Millia Islamia on 7 March 2019.

Dr. Rajiv Nayan invited as a resource person for a Faculty Induction Programme organised by Dr. Harisingh Gour Vishwavidyalaya, Sagar (MP), 7 January to 05 February, 2019.

Dr. Vibhash Kumar conducted two sessions on “Academic Integrity and Unintentional Plagiarism” as Resource Person on February 7, 2019 in two-day National Research Methodology Workshop organised by MMAJ Academy of International Studies, Jamia Milia Islamia at Ho Chi Minh Conference Room, AIS, Jamia Milia Islamia from 6-7 February 2019.

### **Student Distinctions**

Anurag Soni of BMS III year has been accepted into the Masters of Science in Management in Entrepreneurship Leadership (MSEL) program for 2019-20 at Babson College, Massachusetts, United States.

Shivranjani, the Music Society of Ramanujan College secured 1<sup>st</sup> prize at Bhaskaracharya College in Semi-Classical Group Singing Competition and Bhim Rao Ambedkar College in Classical Group Singing Competition.

### **Publications**

Batra, K., Kumar, V. (2018). Indian individual investor behaviour: a model based study to meet sustainable and inclusive growth. *World Review of Entrepreneurship, Management and Sustainable Development*, 14(6), 705-716.

Cho, N. E., Kumar, S., Kumar, V., Ravichandran, V. (2018). Differential subordination and radius estimates for starlike functions associated with the Booth lemniscate. *Turkish Journal of Mathematics*, 42(3), 1380-1399.

Cho, N. E., Kumar, V., Kumar, S. S., Ravichandran, V. (2019). Radius problems for starlike functions associated with the Sine function. *Bulletin of the Iranian Mathematical Society*, 45(1), 213-232.

Gupta, P., Singh, R. (2018). Domination in graphoidally covered graphs: Least-kernel graphoidal graphs-II. *AKCE International Journal of Graphs and Combinatorics*, 15(1), 63-71.

Gupta, R., Chaudhary, A., Jaiswal, S., Singh, B. (2018). Classical and Bayesian Analysis of a Two Identical Unit Standby System with Fault Detection, Minor and Major Repairs under Geometric Distributions. *International Journal of Agricultural and Statistical Sciences*, 14(2), 791-801.

Kumari, P., Nayan, R., Aggarwal, S.P. Baswani, G. (2019). Rethinking Teacher Education Programmes for Inclusive Classrooms: Issues and Challenges in India. *International Journal of Information and Education Technology*, 9(2), 143-148.

Mukherjee, T., Singh, A. K., Senapati, D. (2019). Performance Evaluation of Wireless Communication Systems over Weibull/q-Lognormal Shadowed Fading Using Tsallis' Entropy Framework. *Wireless Personal Communications*, 1-15.

Park, J. H., Kumar, V., Cho, N. (2019). Sharp Coefficient Estimates for Non-Bazilevic functions. *Journal of Computational Analysis and Applications*, 27(7), 1103–1112.

Yadav, D. K., Shukla, A. K., Tomer, S., Kumar, B. (2018). Predictive Estimation of Finite Population Mean Using Coefficient of Kurtosis and Median Auxiliary Variable Under Simple Random Sampling Scheme. *International Journal of Mathematical Archive*, 9(5), 137-143.

Yadav, N. (2018). Why Elderly People Don't Prefer to Claim their Maintenance from their Children? *International Journal of Indian Psychology*, 6(3), 159-166.

### **Journals**

Published by the college: 01

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board: 10

### **Research Projects**

Department of Science and Technology (DST) of the Ministry of Science and Technology, Government of India, entitled “Interactive and Immersive Framework for Cultural Heritage” by the Dr. Nikhil Kumar Rajput (PI), Dr. Amit Kumar Singh (Co-PI), Dr. Vipin Rathi (Co-PI).

Five University of Delhi sponsored three-year star innovation projects are progressing satisfactorily and are now in their third year (Grant Sanctioned: Rs. 87,50,000).

### **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.

### **Seminars/ Workshops Organized**

One-month Faculty Induction Programme from 9 Apr - 5 May 2018.

Faculty Development Programme on “Research Methodology & Statistical Tools” from 23 –29 May 2018.

Faculty Development Programme on “Multimodality, Multimediality in literature, cinema and allied arts” from 1 –7 August 2018.

One day workshop on “Application of Spreadsheets in Financial Management” on 8 September 2018.

One-week Faculty Development Programme on “ICT Integrated Research in Mathematical Sciences” from 24 – 30 September 2018.

Workshop on ‘Career Guidance and Pre-Employment Opportunities’ on 1st March, 2019 conducted by Dr. Vandana Gambhir Chopra, a soft skill behavioral trainer and a psychological profiling expert. She segregated the workshop into 4 segments: Attitude and Personality Development, Skill Building for 21st Century, Mock sessions on Group Discussion and Interviews and Career Avenues and Road Ahead.

### **Conferences Organized**

The 28th Annual Convention of National Academy of Psychology (NAOP), 2019 was organized by Department of Applied Psychology on 19- 21 December, 2018.

Two day “Global FinTech Conference” on Fintech, Artificial Intelligence, Blockchain and Crowdfunding was organized on February 23-24, 2019 at the Shankar Lal Auditorium, North Campus and University Conference Centre, North Campus by Department of Commerce, Management and Computer Science.

The Department of Philosophy, University of Delhi in collaboration with Department of Philosophy, Ramanujan College organized an International Conference on 'Building Bridges Between Latin American Philosophy and Indian Philosophy' on 22 March, 2019 at Arts Faculty, University of Delhi.



### **Seminar/Conference Presentations**

Ashish Kumar Shukla presented a paper entitled, "A Generalized Class of Separate Regression-Type Estimators for the Estimation of Finite Population Mean" at 2018 MTMI International Conference on Emerging Issues in Business, Technology and Applied Sciences, sponsored by DBMA, University of Maryland Eastern Shore, USA, Department of Management, Frostburg State University, USA and College of Business, Bowie State University, USA at Hotel IBIS, Bangkok, Thailand during December 22-23 2018.

Sachin Tomer presented a paper entitled, "Estimation of Parameters of Mixture Model Under Type II Progressive Censoring" at 2018 MTMI International Conference on Emerging Issues in Business, Technology and Applied Sciences, sponsored by DBMA, University of Maryland Eastern Shore, USA, Department of Management, Frostburg State University, USA and College of Business, Bowie State University, USA at Hotel IBIS, Bangkok, Thailand during December 22-23 2018.

Nawab Singh presented a paper entitled, "Tamas: Saampardayikta Aur Hasiye ka samaj" in one-day International seminar on "Hindi Sahitya Aur Samkaaleen vimarsh" in PGDAV Eve. College (DU) on 06 February 2019.

Nawab Singh presented a paper entitled, "Krishi sankat ka yatharth aur Premchand" in two days International seminar on "Socio-Cultural Study of Agriculture" in Mata Sundari College for Women (DU) on 15-16 March 2019.

Nirupuma Yadav presented a paper entitled, "Spirituality an alternative technique to deal with mental disorders; scoping literature review" at the Ist International Conference on Integrating Traditional Indian Healing Practices with Contemporary Western Health System.

Isha Gupta presented paper in 43rd Simposio de la Asociación Española de Economía - Spanish Economic Association (SAEe) organized by Universidad Carlos III de Madrid, Spain from 13-15 December 2018 .

Archana Jamatia presented a paper entitled, "Crisis in The Post Modern Civilization" in the National Seminar on Philosophy: The Eternal Awakener of Humanity, Held by the Department of Philosophy, Osmania University, Hyderabad (2018).

Birjesh Kumar presented a paper entitled "Sensitivity Analysis of C- chart in terms of OC and ARL" in 2018 MTMI International Conference on Emerging Issues in Business, Technology and Applied Sciences, sponsored by DBMA, University of Maryland Eastern Shore, USA, Department of Management, Frostburg State University, USA and College of Business, Bowie State University, USA at Hotel IBIS, Bangkok, Thailand during 22-23 December 2018.

Rajesh Singh presented research paper entitled "On Graphoidal Length of a Tree in Terms of its Diameter" at International Conference on Theoretical Computer Science and Discrete Mathematics (ICTCSDM 2018) held in Department of Mathematics, SSN College of Engineering, Chennai, Tamil Nadu, INDIA during 03-05 December 2018.

Sumit Nagpal delivered an invited talk entitled "An introduction to Univalent Harmonic Mappings" at the Mini Symposium in Mathematics held at Department of Mathematics, Deen Dayal Upadhyaya College, University of Delhi on 22-23 February 2019.

### **National/ International MoUs Signed**

MOU with WCL Sports Management Pvt. Ltd. Faridabad

MOU with Young Indians (YI) Confederation of Indian Industries (CII)

MoU with MCI Management Center Innsbruck, Austria for a period of five years recognizing the benefits to be gained by both institutions through a cooperation in teaching, academic research & operations, and exchange of students, staff and knowledge within the interests and abilities of each institution.

MOU with Mohar Organics under which four students are working as interns with Mohar Organics educates girl students in various colleges and schools about the importance of using sanitary napkins.

### **Students under Exchange Programmes**

As per the Student Exchange Agreement between MCI Management Center Innsbruck and Ramanujan College, the exchange program will involve undergraduate or graduate students who have completed at least three (undergraduate)/two (graduate) semester of tertiary study at the home institution. Both institutions will send up to TWO exchange students to each other institution in every academic year.

### **Placement Details**

Number of Students Placed: 326 students

Number of Companies visited for campus recruitment: 42 companies.

### **Extension and Outreach Activities**

A workshop to create “Best Out of Waste”, a Painting competition were organised for for the students of Govindpuri slum. They were also taken to the “National Science Center,” New Delhi on the 15th July 2018. A cleanliness drive was held in collaboration with "TATVA", the environmental society of Ramanujan College in the month of October 2018. A ten-day Self Defense Training camp was organized by Women Development Cell from January 21 to February 1, 2019 on the theme of “Danger knows no bound” with trainers from Delhi Police to empower girl students. The NSS unit of the College provided service to the Kalkaji Mandir, New Delhi, with the missing child help desk. A Blood Donation Camp was organised by the NSS Unit of Ramanujan College, on 6<sup>th</sup> February 2019 in the college campus.

### **Library Development**

New Library space is created near the new building with an air-conditioned reading lounge which is Wi-fi connected. Library stack hall has enhanced storing capacity with addition of foldable almirahs. Library automation package has been upgraded with open source international library software KOHA. Modern web-based systems delivery and discovery provisions of E-resources OPAC with advanced search facility are used in the college library. The Library Staff has been sent to specific training programmes to augment their efficiency. With 1318 volumes of textbook and 75 Journals are newly added in the Library.

### **Faculty Strength**

Total sanctioned faculty:110

### **Financial Allocation and Utilization**

Grant sanctioned - Rs. 204736000/-

Grant utilized - Rs. 223979557/-

### **Other Significant Information**

On the occasion of the Ramanujan College Foundation Day (22<sup>nd</sup> December 2018), that was celebrated to mark the 131<sup>st</sup> birth anniversary of the great mathematician Srinivasa Ramanujan, eminent historian, Prof. Mahesh Rangarajan, Professor of History and Dean of Academic Affairs, Ashoka University delivered the 6<sup>th</sup> Annual Ramanujan Memorial Lecture. Ramanujan College organised the Diamond Jubilee carnival on 18th November 2018. The theme for the carnival was "Gujarat", conceptualised to commemorate the 150<sup>th</sup> birth anniversary of the father of the Nation.

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## RAMJAS COLLEGE

### Major Activities and Achievements

Ramjas College has an admirable legacy and the centennial year of the College was celebrated last year, 2017 with a national fervor. In the honor of completion of 100 years, the Honourable President of India, Dr. Pranab Mukherjee, brought out the Postal Stamp, featuring the photo of Ramjas College. Over the years, Ramjas College has become one of the main 'centers of excellence'. The college is committed to provide the best quality education to the students regardless of their background, as well as inculcate values, gender equality and professional ethics. Students and teachers have made remarkable contribution in their respective field. The students have made us proud by bringing laurels in not only studies but also in sports and extra-curricular activities. In the academic year, 2018-19, a series of talks, lectures and seminars were held by different departments imparting knowledge to thousands of students and teachers from diverse fields.

### Honours/Distinctions

Dr. Sumanjeet from Department of Commerce received 'Excellence Award for Teachers in Service' on the Foundation Day of the University of Delhi.

Dr. Monica Patel from Department of Chemistry received NOST Best Thesis Award at XIV J- NOST 2018 organized at CSIR- IICT, Hyderabad( November 28- December 01, 2018).

Dr. Charu Dogra from Department of Zoology received Faculty Achievement Award, 2018, Ramjas College, University of Delhi.

### Students with Distinctions

Akanksha Khosla of B.Sc. Life Sciences received Principal's Award for best student.

Aakansha Singh of B.Sc.(H) Zoology received Principal's Medal for outstanding female student.

Bhanu Suri of B.Com (P) received Principal's Medal for the outstanding male student.

K.S. Sanjana of B.A.(H) Political Science received Professor Ambassador Prasad Memorial Gold Medal for the best student in Humanities( other than Economics and Commerce).

Shivam Kansal of B.Com.( H) received Rai Kedar Nath Gold Medal for the best student in Social Sciences ( Economics and Commerce).

Vaibhav Pandey of B.Sc.(H) Mathematics received Rai Kedar Nath Gold Medal for the best student in Sciences.

### Publications

Agnihotri, P.K., Maity, P.J., Dwivedi, K.K. and Bhat, V. (2018). Isolation of Nucellin promoter from *Hordeum vulgare* and its characterization in *Arabidopsis thaliana*: *The International Journal of Plant Reproductive Biology* 10(2), 151-156.

Chaudhry B. (2019). A Handbook of Common Medicinal Plants used in Ayurveda. Delhi, India : Kojo Press. ISBN : 978-81-933805-7-4

Das, D.K. (2018). Productivity Dynamics in Emerging and Developed Countries (ed) . Routledge, India.

Kumar, S. (2018). *Ed. Ethnobotany*. Vol. I Delhi, India: Kojo Press. ISBN: 978-81-933805-4-3

Lal, S., Fawcett, D., Rattan, S. Poinern, G.E.J. and Lal, R.( 2019). Chicken Gut Microbiology and Human Health: Past Scenarios, Current Perspectives, and Futuristic Applications : *Indian J. Microbiology*. <http://doi.org/10.1007/s12088-019-00785-2>

Sasi, J.M., Kumar C.V., Mani, B., Bhardwaj, A.R., Agarwal, M., Katiyar-Agarwal, S. (2019). Identification and characterization of miRNAs during leaf senescence in rice by high-throughput sequencing : Indian Journal of Plant Physiology 24(1):1-14. Online ISSN: 2662-2548, Print ISSN 2662-253X.

Patel, M., Verma, A.K. (2018). Base-Mediated Deuteration of Organic Molecules: A Mechanistic Insight : ACS Omega, 3, 10612-10623

### **Seminars Organized**

Professor R.K. Bhandari Chairman, Forum on Disaster Mitigation of the Indian National Academy of Engineering and Member, National Advisory Committee of the National Disaster Management Authority (NDMA), delivered a talk on 'Destination: Disaster Free India'. September 25, 2018 organized by Department of Botany.

Dr. K Sharada, In-charge, Sahyog Adolescent Care Centre, Bara Hindu Rao Hospital, Delhi conducted a workshop and delivered a talk on 'Understanding adolescent behaviour' for adolescent students and addressed issues related to depression, impulsive behaviour, self-esteem and generation gap on October 09, 2018, organized by Department of Zoology.

Professor A.G. Vedeshwar, Department of Physics and Astrophysics, delivered a talk on 'The Journey of Raman Effect'. December 28, 2018 organized by Department of Physics.

Dr. Manoj Khanna, Principal, Ramjas College, delivered a talk on 'Fabrication of Electronic Devices'. March 15, 2019 organized by Department of Physics.

Professor Nivedita Menon, JNU delivered a talk on 'The Politics of Triple Talaq'. January 28, 2019, organized by Department of Political Science.

### **Conferences Organized**

College organized a National Conference on the Science of Consciousness: Exploring the Interaction between Body, Mind and Spirit. February 09, 2019.

Organized a two days National Conference on 'Emerging Green Technology and Technical Terminology' on February 13 & 14, 2019.

Organized a one day Workshop on 'Ayurveda: A Holistic Approach to Health and Longevity'. March 12, 2019. Resource person: Dr. Ishu Arora, Senior Ayurvedacharya, Jiva Ayurveda. Participants.

The Sanskrit Department organized a two days National Seminar on 'Sanskrit Literature in Global Perspective' on March 15-16, 2019.

The Department of Botany organized a National Seminar on 'Recent Trends of Research in Medicinal Plants and Applied Sciences' on March 27, 2019. Professor Tanuja Manoj Nesari, Director, All India Institute of Ayurveda (AIIA), New Delhi, delivered the Key Note Address.

### **Seminar/Conference Presentations**

Dr. Bharti Chaudhry and Dr. Suresh Kumar attended and presented (oral presentation) on 'Micropropagation of a medicinally important plant: *Bacopa monnieri*'. International Conference on Medicinal Plants and Drug Discovery from 18-20 July 2018.

Dr. Charu Dogra, attended and presented a paper at Young Scientist Colloquium at Indian Network for Soil Contamination Research (INSCR) International Conference held at KIIT, Bhubaneswar, Odisha (IIC) on 26-27 September 2018.

Dr. Neelu Anand Jha and Prof. Vinod Kumar presented a paper entitled, 'Trans-generational effects of constant light environment on Reproduction and associated behaviour in zebra Finches' in 'International

Conference on 'Reproduction, Endocrinology and Development, and 37<sup>th</sup> Annual Meeting of the Society for Reproductive Biology and Comparative Endocrinology held during 18-21 January 2019.

### **Placement Details**

Number and percentage of students placed : 40

Number of Companies visited for campus recruitment: 32

### **Extension and Outreach Activities**

Department of Zoology organized an Outreach Program to Bani School Innovative Camp at Bani, Himachal Pradesh, October 15, 2018 (under the aegis of DBT Star College Project). Department of Botany organized an Outreach Program to Amar Singh Inter-College, Lakhaoti, Bulandshahr, Uttar Pradesh on March 06, 2019 under the aegis of DBT Star College Project. A group of 12 teachers and 30 students of the Botany Department, imparted hands-on - training to about 450 students of classes IX and XI on various experiments in Biological Sciences.

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## **RAM LAL ANAND COLLEGE**

### **Major Activities and Achievements:**

The college completed first cycle of NAAC accreditation with a CGPA of 2.84 (grade B++). A new center of Human Values offering a certificate course on Human Values, Ethics and life skills for Ist year students for their holistic development has been started by the college. Three Add on Skill development certificate courses (Hospitality and Tourism Management in collaboration with Nijhawan Group of Companies; Hindi Anuvad in collaboration with Hindi Anuwad Parishad; Data Analytics: SQL, Advanced Excel and R programming in association with Step-Up Analytics) were successfully conducted this year. Alumni Association of college has been formally registered under the Societies Act and held its first Alumni meet which was attended by around 120 alumni. Alumni College enrolled itself as NPTEL Local Chapter for enhanced learning of students.

### **Honours/Distinctions**

Dr Rakesh K Gupta, Principal and Dr Kusum R Gupta, Nodal officer received Certificate of Appreciation for successful hosting and organisation of District Youth Parliament under National youth Parliament Festival 2019 in the college from Ministry of Youth Affairs and Sports Government of India

Dr Rakesh K Gupta, Principal was awarded with Certificate of Appreciation from UN Information Center for India and Bhutan for his outstanding contribution to success of All India Essay Writing Event 2018.

Dr Devendra Kumar, Department of History received Certificate of Appreciation from Director, Gandhi Bhavan, DU, for his outstanding contribution as deputy Coordinator, to organisation of winter workshop "The making of Individual and society" held from 21-30 January 2019.

Dr. Neeraj Kumar Sharma received Appreciation Letter for redesigning the overall syllabus and structure of B.Sc (H) Comp. Sc., BSc Program, B.A. Program with Comp. Applications from Department of Computer Science University of Delhi

Dr. Prabhas Kumar Pande was nominated in the Scientific Expert Committee (SEC) constituted by DST in the area of Earth, Seismology, Atmospheric, Marine and Ocean Sciences etc. technical evaluation, monitoring etc. of Asean-India R & D proposals.

### **Students With Distinctions**

Shrabani Snigdha of BSc (Hons) Microbiology II Year topped in University of Delhi with a CGPA 9.57.

Rupendra Yadav bagged the all India Topper position in Linear Algebra course in NPTEL with 93% marks.

The Prestigious DST Inspire fellowship of Rs. 80,000 per annum has been awarded to 8 students of the college this year.

Priya Kumari was awarded second prize in Painting competition at the renowned annual festival of IIT Bombay.

Shreya Uttam of BJMC was awarded third prize of Rs 11,000/- in a national debate competition in which 54 students from 11 states participated.

### **Publications**

Dabas, S.C. (2019). *Manovishleshan aur Nayi Kavita*. Shri Natraj Prakashan. New Delhi, ISBN: 978-93-86113-20-7.

Gupta, V., Bhatia, S., Satapathy, A., Padhy, T. (2018) Adopting global best practices to advocate changes in Indian Policy Framework for Smart Cities implementations. White Paper, *IET 3rd edition IoT India Congress*.

Kumar, R. (2019) Book Review Tang Galiyon se Bhi Dikhta Hai Aasman. *Parikatha*, 78; 149. ISSN: 2320-1274.

Kumar, R. (2019) Kisanon Ka long March Aur Media. *Kathan*, 81; 194. ISSN: 38623/80.

Kumar, N (2017). Reading Gurdial Singh: A Reflection on Caste and Gender in Punjab. *Studies in Humanities and Social Sciences*, 24, 55-69, ISSN: 09721401.

Lal, R., Saini, H.S., Pant, N.C., Mujtaba, S.A.I. (2019). Tectonics induced switching of provenance during the Late Quaternary aggradation of the Indus River Valley, Ladakh, India. *Geoscience Frontiers*, 10 (1), 285-297 open access. <https://doi.org/10.1016/j.gsf.2017.12.016/>

Prasad, S., Datta, S., Adarsh, T., Diwan, P., Annapurna, K., Kundu, B., Biswas, K. J. (2018). Effect of boron oxide addition on structural, thermal, in vitro bioactivity and antibacterial properties of bioactive glasses in the base S53P4 composition. *Journal of Non-Crystalline Solids*, 498, 204-215.

Raj, T. (2018) Citizen charter As a Tool For Empowerment and Governance. *The Indian Journal of Political Science*, LXXIX (2); 480-486. ISSN: 0019-5510.

Rout, S. P. (2018) India a Global Power: Its Success and Challenges. *The Indian Journal of Political Science*, LXXIX (4); 872-78. ISSN: 0019-5510.

Sharma, S., Kalra, K. (2018). Demonetization: An Initiative for digitalization *International Journal of Social Science and Humanities Research*, 6 (3), 734-740. ISSN: 2348-3156 (P), ISSN: 2348-3164 (O).

### **Number of College Teachers Serving As Editor/Member Of Editorial Board 4**

#### **Research Projects**

IMPRESS scheme of ICSSR, entitled, "Study of varied complexities of North East region and role of National Cadet Corps to integrate it strongly within the national mainstream" by Dr. Sanjay Kumar Sharma (Project Director), Dr. Rita Jain (Co-Project Director), Amount Rs. 4.99 lakhs.

#### **Seminar Organized**

Department of Microbiology conducted a National Seminar entitled "Probiotics: Ameliorating the Burden of Life style diseases" in association with Probiotic Association of India on 1 February 2019.

Department of Political science collaborated with IIPAtO to conduct a one day National Consultation/workshop on "Ambedkar's thoughts on Socio-Economic Transformation" on 9 April 2019

Gandhi Study Circle organized a national seminar entitled “Understanding Gandhi” in association with Gandhi Smriti and Darshan Samiti, Rajghat, New Delhi

Department of computer science organised a National seminar on “Ethical Hacking” in association with ICT Academy on 7 March 2019.

Seminar cum integration fest under “Ek Bharat Shreshtha Bharat” was organized by North East Society on 14 Feb 2019. Speaker: Dr Thokchom Meinya, MP Lok Sabha, Manipur.

Seminar, Nationalism, Patriotism and Human Values, organised by Sangoshthi and NCC with eminent personalities, held on 13 August 2018.

Department of Hindi organised “Natak ka manchan: Aashad ka ek Din by Dr Rama Yadav on 31 August 2018.

Department of BA Programme organised a talk entitled “Youth in Emerging India” by Dr. Ravi Kant Mishra, Deputy Director, Nehru Memorial Museum and Library on 22 January 2019.

Department of Mathematics organised a talk “Fermat’s Last theorem and its special cases Application by Dr. Geetha Venkataraman, Professor, Ambedakar University on 12<sup>th</sup> March, 2019.

Lecture by Dr. Swarupa Mitra, Senior Consultant, Radio Oncology, Rajiv Gandhi Cancer Institute and Research Centre Rohini, New Delhi. was organized on Spreading awareness on Breast Cancer in collaboration with Women Welfare Advisory Committee on 26th October 2018.

#### **Conferences/workshops organized**

Two days FDP entitled “Writing Research Proposals and Addressing IPR Related issues” was held from 29 -30 March 2019.

Five days FDP entitled “Quality Assurance in HEIs: Reorienting Teaching-learning Paradigm” in association with SGND Khalsa college under IQAC cluster (MoU signed by IQAC of Ten colleges of Delhi was held from 15 -19 March 2019.

Two days FDP entitled “Emotional Intelligence” in association with ICT Academy from 4-5 January 2019.

FDP entitled “HADOOP” in association with ICT Academy was held from 21 to 25 May 2018.

Workshop for faculty entitled “Effective writing of Grant Proposals, IPR and its types” was held on 30 March 2019.

Training Program entitled “ICT tools for Beginners” was organised for non-teaching employees of different colleges and universities from 17-19 January 2019.

Workshop for students entitled “Entrepreneurship: How to kick start your startup” was held on 30 March 2019.

One week workshop on Basics of Theatre including body control, voice modulation, building and performing a character along with dialogue delivery and exploring the emotional range by

#### **Seminar/Conference Presentations**

Srishti Bhatia presented a paper entitled, “Developments in Artificial Intelligence: A global perspective XX<sup>th</sup> Annual International Conference: Global Vision 2030: Challenges and Opportunities at Deen Dayal Upadhyaya College, University of Delhi from 4-5 January 2019,

Parul .Lau Gaur presented a paper entitled, “Sacred landscape: memory and re-appropriating historicity through political discourses in the Oxford Symposium on Religious studies held at Oxford, U.K. from 5-7 December 2018.

Sunila Hooda presented a paper entitled, “Molecular characterization of nitrate assimilation and protein productivity. Invited talk in I- DBTBioCAREconclave: Women Scientists achieving greater heights” NIPGR, New Delhi from 8-9 March 2019.

R. Lal presented a paper entitled, “Geochronology and Paleomagnetism Reconstruction of Late Quaternary stratigraphy along the upper Indus valley, Ladakh in National Workshop on Advances in stratigraphy and geochronology of Indian sedimentary basins and Road, Department of Geology, University of Delhi on 27 February 2019

Prabhas Pande presented a paper on “Major Issues in Earth Science Education-Solutions. Rejuvenating Indian Palaeontology and Establishing A National Earth Museum. INSA & University of Delhi from 10 -11 September 2018.

Neeraj Kumar Sharma presented paper on “Reputation Computing using Attack-Resilient Parameters in e-market” in Refresher course in Computational & Mathematical Studies at Jamia Millia Islamia from 29August- 19 September 2018.

Singh, R. presented paper on “Digital India: Opportunities, Challenges and Impact on Different Sector of Economy. International Conference on Digital Economy: Innovation and Challenges 20-21April 2018.

K.G. Tyagi presented a paper entitled,”Contemplation of Advaitvad, Dvaitvad and Traitvad in Vedic Philosophy in Bharat Manthan on 30 Mar 2019 Sanskrit Centre, JNU, New Delhi.

Sharma K. presented paper on” Integrating Agricultural Workers into Sustainable Development Goals Integrating Agricultural workers into SDGs: Addressing Key Problems and Serving Solutions at Indian Institute of Public Administration, New Delhi from 14-15 March 2019.

Alankar. Koli Fisher folk in Mumbai: Uncertainty in climate change in International Seminar “Transformation as Praxis: Exploring Socially Just and Trans–disciplinary Pathways to Sustainability in Marginal Environment held from 8-12 January 2019.

R. Mishra presented a paper entitled, “Sri Aurubindo's Lyrical Expressions of Freedom from Human World to Spirituality” in DHE sponsored International Seminar on Poets of the Freedom Movement held at Hindu Girl's College, Jagadhari on 14-15 December 2018.

### **National/International MoU Signed**

MoU signed with IQAC of ten Colleges in Delhi (IQAC Cluster)

MoU signed with S M Sehgal Foundation

MoU signed with Molitics

MoU signed with Amar Ujala Publications Limited

### **Other Inter-Institutional Collaboration**

CSIR-Central Glass and Ceramic Research Institute, Kolkata for Antibacterial Assay studies.

Translational Health Science and Technology Institute (THSTI): As part of MoU signed last year under “Science Setu” program, 25 students participated in “Immunocon-2018” and 11 students participated in a three day lecture on Overview of Cellular and Molecular Immunology. Five students were selected as summer interns at THSTI.

Gandhi Smriti and Darshan Samiti, Rajghat, New Delhi.

GGs Indraprastha University, New Delhi.

St Edmunds College Shillong, Meghalaya.



### **Extension and Outreach Activities**

To inculcate moral values, a sense of responsibility among the students and for their holistic growth college organized several activities on social issues under dedicated NSS unit, NCC unit and many staff council committees. College has initiated a bimonthly cleanliness drive under which 55 faculty members and 500 students participated in campus cleanliness drive. A number of awareness rallies/programmes/drives on cleanliness, cancer, conservation of water, second Anniversary of Surgical Strike, spinal injuries, Ahimsa rally on 100<sup>th</sup> Kasturba Gandhi Death Anniversary, commemorating the 100<sup>th</sup> Anniversary of Jalianwala Bagh massacre, cloth donation, tree plantation were held.

### **Library Development**

A number of upgradations have been done in the library. INFLIBNET has been subscribed by the college for remote accessibility of reading material to students and faculty. OPAC system has been made functional for an easy access and location of books in the library. Kindle section has been opened for digital reading of books. A dedicated reading room for PwD students with books in braille and for faculty has been made functional in the library. 11 New Magazines requested by students for competitive examination preparation have been subscribed by college. Currently the library has around 60,705 books in the library and in 2018-19, 1093 books have been added for various subjects.

### **Faculty Strength**

Total permanent - 40

Total Adhoc - 45

### **Financial Allocation And Utilization**

Grant sanctioned : Rs.18.31crore

Grant utilized : Rs.17.62 crore

### **Other Significant Information**

Centralized Trials of students for UG admission in all colleges of University of Delhi under quota for Extra-curricular activities in Quiz were conducted in the college on behalf of the University of Delhi. A number of Field trips to various Institutions/Industries like Yakult Industry, IARI PUSA, National Seismic Centre, IMD Delhi, Atomic Mineral directorate, Babasaheb Dr B R Ambedkar Memorial, Delhi

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## **SATYAWATI COLLEGE**

### **Major Activities and achievement**

College launched software which is covering all the aspects of the college i.e Admission, Time Table, Leave, Salary, Pension, Fee, Finance & Library. It will enable the students and employee to check their record online with the help of Smart Card provided to them. Online medical portal was also launched by the College to enable the employee to fill their bill online and track their payment status from their home. Various national seminars were also organized by many departments of the college.

### **Honours/Distinction**

Dr. Abha Mathur received “Best Teacher Award” award from Directorate of Higher Education, Government of NCT of Delhi for the year 2018-19.

Dr. Rekha Sharma represented India as a Manager of Girls Kho-Kho Team India, for First International Kho-Kho Tournament held at London during 1<sup>st</sup> September to 6<sup>th</sup> September, 2018.

## **Publications**

Jha, B. (2019). Sardar Patel, League and the Hindu Nationalists in :Patel: Political Ideas and Policies (eds.Shakti Sinha and Himanshu Roy), Sage, New Delhi, 100-124, ISBN:978-93-528-0853-3

Mathur, A. (2018). Business & Economics Research, International Business –Its Impact on Economy, 16(2). ISSN-0972-7302.

Mathur, A. (2018). Review of Research, “New Dimension of Entrepreneurship-A case study of Charterpreneurs, EBSCO, USA.

Prasad, P. (2018). The Archeology of Buddhist Expansion under Kushanas, Historical Researches: Theory and Practices, ISBN: 978-81925005-7-7, pp. 18-26

Prasad, Pallavi, (2018), The Economics system under the Kushanas, Itihas Darpan, Vol. XX III (I), ISBN: 0974-3065, pp. 32-36.

Prasad, P. (2018), Vicissitudes of Buddhism from Kushanas to the Pusyabhutis, 4(01), ISSN:2454-5600

Singh, R. (2019). Aeglemarmelos: Nature Gift for Human Beings Green Chemistry and Biodiversity Principles, Techniques and Correlations. CRS Press: Taylor and Francis Group, USA, ISBN:9781771887946

Singh, R. (2019). Algae: Role in Environment Safety. Research Methods and Application in Chemical and Biological Engineering. Apple Academic Press, ISBN: 9781771887687

Tripathi, R. (2018), Indian Buddhism Survives in Thailand, Biddhism in Southeast Asia, ISBN: 978-818290-484-2.

Tripathi, R. (2018). Growth of Buddhism in Cambodia, Indian Culture & Heritage in South and South East Asia, Om Jee Upadhyaya and Saurabh Kumar Mishra Publication, Akhil Bharatiya Itihas Sankalan Samiti, Delhi, ISBN: 978-93-82424-314

## **Seminar Organized**

National Seminar on “Patrakarita and Rojgar” was organized by Department of Hindi on 18 January 2019.

National Seminar on “Shri Rishi Kumar Mishra Smarak” was organized by Department of Sanskrit on 02February 2019.

National Seminar on “Vedant Darshan Ke Vyavahrik Paksh” was organized by Department of Sanskrit on 04 February 2019

National Seminar on “Rising India: New Aspiration” was organized by NCC Naval Wing under the Guidance of Dr. Tarun Kumar Garg on 11 March 2019.

## **Seminar/Conference Presentations**

Abha Mathur presented a paper entitled “Green Marketing Endeavors- A Study of Select Industries” in ‘XIV International Conference on Business Sustainability in the 21<sup>st</sup> Century- Managing People, Planet & Profit” held at Phd. Chamber Konrad Adnauer Stiftung, ADMISA & JIMS on 23 February 2019.

Anju Seth presented paper entitled, “Vedic Architecture System’s Relevance in Modern Tim” in an International Conference organized by Indira Gandhi National Centre on 27 November 2018

Aquil Ahmad presented a paper entitled, “Indian Society and Importance of Tasawwuf in 21<sup>st</sup> Century in an International Seminar organized by Majlis-e-Arzan Shahi on 10 November 2018.

Bhuwan Kumar Jha presented a paper entitled, “Gandhi and Malaviya: Agreement within Differences in the National Conference on the Prescient Gandhi: Reviewing the Social, Political, Economic, Moral and Beyond, organized by Nehru Memorial Museum on 21 February 2019

Bhuwan Jha presented a paper entitled, “Hindu, Hinduism and Hindutva” History and Interpretation in the National Seminar on Indic Thought: Exploring the Indian-ness, organized by the Department of Political Science, Goa University, Goa on 28 January 2019.

Biresh Chaudhary presented a paper entitled, “A Unique Experiment in Democracy and Women Empowerment: Civil Administration in the Provisional Government of Azad Hind Fauz” in a National Seminar, organized by ICHR on 23 January 2019

Lajpat Rai presented a paper entitled, “Impact of Globalization on Indian Tribes” in an International Conference, organized by the Satyawati College (Eve.) on 24 April 2018

Malti Raghav presented a paper entitled, “Ambedkar and Social Justice” at the National Seminar conducted by SC/ST Advisory Committee, Satyawati College on 25 September 2018.

### **Library Development**

Total Regular Budget : Rs. 945600/-; Total Expenditure: Rs. 710689/-; New Book Purchased: 1186; Newspaper, Magazine & Journals: 48

### **Faculty Strength**

Permanent - 103

Ad-Hoc - 40

### **Financial Allocation and Utilization**

Grant sanctioned: Rs 55,78,06,000/-

Grant utilized : Rs.42,29,01,000/-

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## **SCHOOL OF OPEN LEARNING**

### **Major activities and achievements**

SOL celebrated the International Day of Yoga on 21 June, 2018 as per the letter No. F.14-13/2015(CPP-II) dated 13-03-2018 received from Prof. Rajnish Jain, Secretary, UGC, MHRD, Govt. of India. School of Open Learning has established a Placement Cell with effect from September 4, 2018, for the benefit of SOL students. The Cell has been created to address the need of students to find a suitable placement after completion of their studies at SOL. The Placement Cell has a fully functional website ([https://sol.du.ac.in/placement\\_cell/](https://sol.du.ac.in/placement_cell/)) to provide the latest information to students regarding the available Job vacancies. The School of Open Learning offers students to meet with capacity building training partners which provide skill training and vocational training for employment and sustainable livelihood in collaboration with ICICI Academy for Skills of the under-privileged youth through self employment and wage employment.

### **Placement Details**

Number and percentage of students placed: 300

Number of Companies visited for campus recruitment: 04

## **Library Development**

Total Budget: Rs. 1,38,000,00/-; Number of books added: 11333 volumes; No. of National Periodicals/Journals Subscribed:11; No. of International Periodicals/Journals Subscribed: 02.

DELNET services are extended to the academics for to their requests of those documents which are not available in SOL library. The documents are collected from member libraries of DELNET and made available for consultation in SOL library premises only. 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..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.

## **Faculty Strength**

Permanent - 21

Ad hoc - 01

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## **SHAHEED BHAGAT SINGH COLLEGE**

### **Major Activities and Achievements**

Journal of Business Studies, Journal published by the college for the past 30 years has been included in the UGC List of Approved Journals. The tenth volume of the Journal was released in the year 2018.

### **Honours/Distinctions**

Dr. Nilanjana Mukherjee, Assistant Professor, Department of English was awarded travel grant by the SFB 1169, University of Leibzig, Germany to present her paper titled “Deconstructing the Frontier in the Himalayas: Reading Spatial Alterities” at the University of Leibzig in October, 2018.

### **Publications**

Agrawal, N. (2018). Identifying Customers Expectations from Banks in India. Pranjana, The Journal of Management Awareness. 21(1). 10.5958/0974-0945.2018.00001.8

Agarwal, K. (2018) “Draupadi” and “Women and the Feminine in Vedic Hinduism” appeared in Encyclopaedia of Women in World Religions: Faith and Culture across History, Ed. Susan de-Gaia California: ABC CLIO/Greenwood, ISBN: 978-1-4408-4849-0 (Print), 978-1-4408-4850-6 (E-Book).

Gupta, R. (2018). Revised edition of the book titled “Advertising”, Scholar Tech Press.

Kapoor, R. “WTO AOA (2019). Issues and Challenges in Indian Agriculture Sector” in an edited book, ISBN 978-93-87684-37-9 published in Banarsidas Chandiwala Institute of Professional studies 2019.

Pooja, G. (2019) “Service Quality Dimensions, Satisfaction, and Loyalty in e-retailing: An Empirical Study” ssue of Effulgence 17(1).

Pooja, G. (2019) “The Moderating Role of Gender and the Choice of e-Retailer and the Mediating role of e-Customer Satisfaction in e-Loyalty Formation Process” DIAS Technology Review issue 29(2), ISSN 0972-9658 in 2018.

Poonam, S. (2018) “Hydro Power Development in the Himalayan High Altitude Ecosystems” in International Journal of Scientific Research and Reviews, Volume 7, Issue 2 , April –June. ISSN: 2279–0543

Raman, V.A.V. (2019). “Geographical Analysis of Geotourism based Seasonal Economy in Lahaul and Spiti, Himachal Pradesh (India)”. GeoJournal of Tourism and Geosites, 24(1), 118–132. <https://doi.org/10.30892/gtg.24110-347>

Tripathi, P., Aneja, N., Sharma, B.N. (2019) "Stability of dynamical behavior of a new hyper chaotic system in certain range and its hybrid projective synchronization behaviour", *International Journal of Dynamics and Control* 7:157–166, <https://doi.org/10.1007/s40435-018-0424-0> Springer-Verlag GmbH Germany, part of Springer Nature 2018

Varadhara. "Reader and beyond: An Introspective journey through the Writings of Michael Crichton" in the book with the title *The Empowerment and Future Challenges of the Visually Impaired*, ISBN 978-81-931407-2-7.

### **Journals**

*Journal of Business Studies* has been included in the UGC List of Approved Journals. The Department of Commerce has been bringing out this journal for last more than 30 years. The tenth volume of the Journal was released in the year 2018. Dr. D.R. Saklani, served as an Editor-in-Chief, for the Journal

### **Seminar Organized**

The Department of Economics organised a One-Day National Seminar on "Globalism vs. Nationalism: The US-China Trade War and India" on 11 February 2019 at India International Centre, New Delhi. Eminent economists, academicians, trade policy experts and advisors to the government; in total 8 distinguished speakers shared their views on the theme.

The Department of Hindi organised a National Seminar on "Hindi Navjagaran aur Aaj Ke Sawal" on 29 March 2019.

### **Conferences Organized**

The Department of Commerce organised its two day 6<sup>th</sup> National Conference on Business and Management on 24-25 February 2019 on "Guiding the way through 21<sup>st</sup> Century", under the leadership of Dr. P.K. Khurana.

The Department of Geography in collaboration with The Association of Geographical Studies organised a two day National Conference on "Historical Geographies of Location and Cultural Evolution in India" at Department of Geography, Delhi School of Economics from 13-14 April 2019.

The Department of Political Science in association with Nehru Memorial Museum and Library organised an International Conference on 'The Gandian Way: An Idea Whose Time has Come?' in Teen Murti Bhawan on 11-12 April 2019.

### **Seminar/Conferences Presentation**

Ruchi Gupta presented a paper entitled, "Micro-Celebrity Endorsement in the Digital Era: Assessing the Impact on Brand Attitude and Purchase Intention" and won the best paper award at the 7<sup>th</sup> AIM (Academy of Indian Marketing)-AMA (American Marketing Association) Sheth Foundation Doctoral Consortium and Conference held at MICA, Ahmedabad, India, held on 4-6 January 2019.

Komal Agarwal presented a research paper entitled "Celebrating Epochal Anti-heroes: Expanding the Semantic Notion of Heroism and Dharma in Select Modern Retellings of the Mahabharata" at the IACLSC International Seminar on Epic Narrative in World Literature, Gandhinagar, Gujarat, organized on 15-16 April 2018

VAV Raman presented a paper entitled "Spatial analysis of Geotourism based seasonal economy in Lahaul and Spiti, Himachal Pradesh" at 30<sup>th</sup> IGI National Conference, organised by Department of Geography, Jamia Millia Islamia, New Delhi, 3-5 October 2018

Poonam Sharma presented a paper entitled "Mapping the Impact of Urban Parks in Planned and Unplanned Residential Areas by Modulating Temperature and Modifying the Microclimate" at National Seminar

Under the Theme ‘Urban Environment in the 21<sup>st</sup> Century: Issues and Challenges’ organized by the Department of Geography, Jamia Millia Islamia, New Delhi, 27-28 March 2018.

Kavzta Arora presented a paper entitled “Pollution at Public spaces and the question of environmental justice: A Case Study of Air Pollution in Delhi City”, in International Conference on Environmental and Ecological Sustainability: Engaging the Stakeholder on 4-5 October 2018 at New Delhi.

Swati Rajput presented a paper entitled “Pollution at Public spaces and the question of environmental justice: A Case Study of Air Pollution in Delhi City”, in International Conference on Environmental and Ecological Sustainability: Engaging the Stakeholder on 4-5 October 2018 at New Delhi.

Vishwa Raj Sharma presented paper entitled “Tourism Potentiality of Agra: Carrying Capacity Assessment” in the International Geographical Union (IGU) Regional Conference on Climate Change, Natural Disasters and Sustainable Development held during 22-24 February 2019. Panchkula, India.

Krishnanand presented a paper entitled "Spatial analysis of Geotourism based seasonal economy in Lahaul and Spiti, Himachal Pradesh" at 30<sup>th</sup> IGI National Conference, organised by Department of Geography, Jamia Millia Islamia, New Delhi, 3-5 October 2018.

Pooja Raj Verma presented a research paper entitled “Mathematical electric-yielding model for mode-III semi-permeable collinear cracks weakening a piezoelectric strip” in the “National Conference on Complex Systems in Interdisciplinary Sciences”, organized by “Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi” from 11-12 March 2019.

#### **Placement details**

Number and percentage of Students placed: 160

Number of Companies visited for campus recruitment: 20

#### **Library Development**

Total Budget : Rs.16,42,500/-; Number of books added: 1528; Number of journals added: 101

Internet facilities upgraded: Yes

#### **Faculty Strength**

Total Permanent: 90

Total Adhoc: 58

#### **Financial Allocation and Utilisation**

Grant sanctioned: Rs.35,50,38,017/-

Grant utilised: Rs. 28,37,68,577/-

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### **SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES FOR WOMEN**

#### **Major Activities and Achievements**

Amongst 1304 institutes, our college has significantly improved its ranking from 53 in 2018 to 31 in National Institutional Ranking Framework 2019. It has become a part of Erasmus Project along with the Silesian University, Faculty of Philosophy and Science in Opava, Czech Republic for the exchange of students and faculty. Entrepreneurship development cell of college organized state and national level business plan competitions in April 2018 & March 2019 under Technology Business Incubator. The college was awarded DBT Star Grant in the year 2014 and was given a further extension for next two years in the year 2018.

## Honors/distinctions

Dr. Daya Bhardwaj, Department of Instrumentation was awarded with 25 Year Excellence Award. She was also conferred with Delhi Ratan Award in All India Conference of Intellectuals during 38<sup>th</sup> Annual Celebration Year 2018 by Mr. Ramdas Athawale, Hon Minister of States Social of Justice and Empowerment, Govt. of India on 28 July 2018.

Ms. Venika Gupta, Department of Electronics received Bharat Jyoti Award for Meritorious services, outstanding performance and remarkable role in December 2018.

She was also conferred by Meritorious Teacher's Award by Govt. of NCT of Delhi for the year 2018-2019.

Dr. Amita Kapoor, Department of Electronics was awarded "Instructor Years of Service" award for fifteen years of active participation and dedicated service in Cisco Networking Academy, by CiscoNetworking Academy. She was also awarded "Bertelsmann Data Science Scholarship" to pursue an online nanodegree from Udacity, by Bertelsmann and Udacity.

Mr. A. R. Unni Krishnan Nair, Assistant, Administration; Mr. Ram Prabesh Rai, Jr. Assistant, Administration; Mr. Sanjay, Daftri, Accounts; and Ms. Savitri Gupta, Technical Assistant, Department of Food Technology were also awarded with 25 Year Excellence Award.

## Publications

Kaur, J. (2018) "The Forgotten Indian Pioneers of Fingerprint Science: Fallout of Colonialism" Indian Journal of History of Science, 53 84-90.

Kumar, V., Jaiswal, M.K. (2018), "Effect of low energy (keV) ion irradiation on structural, optical and morphological properties of SnO<sub>2</sub>-TiO<sub>2</sub> nanocomposite thin films", Journal of Materials Science: Materials in Electronics 29: 13328-13336.

Mishra, A., Datta, S. (2019). Social Influence and Interventions: Perceived effectiveness of anti-smoking advertisements. International Journal of Social Sciences and Economic Research. Vol 4 (3)

Nidhi. (2018) An SRGM for Multi-Release Open Source Software System, International Journal of Innovation and Technology Management (IJITM), World Scientific. 15(02), 1-20.

Pal, P., Pratap, Y., Gupta, M., Kabra, S. (2019) "Modeling and simulation of AlGa<sub>N</sub>/Ga<sub>N</sub> MOS-HEMT for biosensor applications" IEEE Sensors Journal, 19. 2, 587-593.

Sabharwal, P. K., Chattopadhyay, S., Singh, H. (2018). Preparation and characterization of antimicrobial, biodegradable, triclosan-incorporated polyhydroxybutyrate-co-valerate films for packaging applications. Journal of Applied Polymer Science, 135(44), 46862.

Saxena, P. (2019) "A Benchmarking Strategy for Delhi Transport Corporation : An Application of Data Envelopment Analysis", International Journal of Mathematical, Engineering and Management Sciences. 4(1), 232-244.

Sharma, U. Urooj, S. Kabra, S. (2018) "Investigation of InGaAs subcell to InGaP subcell in InGaP/InGaAs/Ge multijunction solar cells with Analytical framework", Materials today: Proceedings, 5 (9), Part 3, 18574-18579.

Soni, Neha, Singh, N., Kapoor, A., Sharma, E.K. (2018) "Low-Resolution Image Recognition Using Cloud Hopfield Neural Network." Progress in Advanced Computing and Intelligent Engineering, Springer, Singapore. 39- 46.

Tyagi, A., Pramanik, R., Vishnubhatla, S., Bakhshi, R., Bakhshi, S. (2019) "Prognostic impact of mitochondrial DNA D-loop variations in pediatric acute myeloidleukemia" Oncotarget Feb 12;10(13):1334-1343.

## **Research Projects**

Two idea proposals- (i) Standardization and Development of “Starch-based Edible Packaging Film using Citrus Fruitwaste with Natural Anti-microbial Properties” and “Development of Osmotically Dehydrated Low Cost Novel Fruit Product using StarFruit (Star Fruit Candy)” have been shortlisted for the Idea competition 2019 organized by Cluster Innovation Centre of the University of Delhi.

Team Tech Divas innovation ‘AI based Adulteration Detector’ got shortlisted for MHRD Innovation Cell Idea Competition 2019.

## **Seminars Organized**

Seminar on “Career and Growth Aspects of Food Technology” was organized on 13 September, 2018.

Seminar on “Success Formulas in Life and Importance of Mantra Chanting”. by Dr. Suresh Bhalla, Professor, Department of Civil Engineering, IIT Delhi and Mr. Asit Nema, Civil Engineer and a member of ISCON Temple was organized under the aegis of IQAC

Seminar on “Soft Skills for Employability”, was organized on 8 October, 2018.

Seminar on “Foreign Career Prospects”, on 24 October, 2018.

Seminar on ‘Potential of Actuarial Science and Data Science’ was organized on September 2018.

## **Conferences organized**

A two-day workshop on “Mathematica” was organized on 12-13 March 2019. The objective was to train students how the theoretical concepts taught in the class can be used to solve practical problems in their respective fields.

National workshop on “Alternative Methods to Animal Testing” organized on 27-29 March, 2019.

DBT sponsored workshop was organized on “Analytical instrumentation food processing and life sciences techniques” from 4<sup>th</sup> June – 1<sup>st</sup> July 2018. It was an interdisciplinary workshop attended by Department of Biomedical Science, Food Technology and Instrumentation.

Workshop entitled “Document Verification: A Forensic Perspective” was organized for the staff and faculty members of colleges across Delhi NCR on 11 June, 2018.

Workshop titled “Know your Rights” in association with Josh Talks was organized by Anubhuti in collaboration with Mukhauta on 14 January 2019.

## **Seminars/ Conferences Presentations**

Shruti Banswal presented a poster entitled “Assessment of antimicrobial activity of Onion and Garlic Crude Extracts” at Indian International Science Festival, Lucknow from 5-8 October 2018

Varsha Mehra presented a poster entitled “Antidiabetic, antimicrobial and anti-inflammatory activity of Justicia adhatoda leaf extracts” in an International Conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019) conducted by Hansraj College, University of Delhi.

Anjeeta Rani delivered oral presentation-Indo-US Colloquium on Recent Developments in Interdisciplinary Research on 2 July 2018 at Hansraj College, University of Delhi.

Ms. Urmil presented a research paper entitled “PaaS providers and their offerings” in an International Conference on Computational Intelligence and Data Analytics (ICCIDA-2018) held at Gandhi Institute for Technology, Bhubaneswar, Odisha, India on 26-27 October 2018 published in Communications in Computer and Information Science (CCIC) Series, Springer.



Amita Kapoor Soni, Neha, Enakshi Khular Sharma, Narotam Singh, and Amita Kapoor presented a paper on “Assistance System (AS) for Vehicles on Indian Roads: A Case Study.” In an International Conference on Human Systems Engineering and Design: Future Trends and Applications.

Ranjana Singh presented a poster on ‘Relationship of Particle size of flour with various flour properties and its effect on baking quality of cookies’ – Para Dholakia, Ranjana Singh, AnupaSiddhu, at National Conference 2nd Amifost-2018 on “Recent Innovations and Technological Developments in Food Science & Technology” held on 28 September 2018 at Amity University Uttar Pradesh, Noida.

Prabhjot Kaur Sabharwal presented a poster on “Polymeric Functionalised Magnetic Nanoassembly for Separation and Enumeration of Analytes” in Young Scientists’ in a conference under India International Science Festival in Lucknow on 5 October 2018.

Neha Garg presented a conference paper entitled, “Analysis of Interface Trap Charges of Double Gate Junctionless Nanowire Transistor (DG-JNT) for Digital Circuit Applications” at IEEE Electron Device Kolkata Conference on 24-25 November 2018.

Himani Dua presented a conference paper entitled, “Impact of different Cavity Structures on Bio-Sensing Response of Junctionless FinFET” at 4th ICEE-International Conference on Emerging Electronics on 16-19 December 16-19 2018.

### **Placement Detail**

Number and percentage of students placed: 15 (15%)

Number of companies visited for campus recruitment: 2

### **Extensions and Outreach Activities**

The Department of Mathematics is running a project called “Utthan” in association with an NGO “Sankalp Hamara” that works for the underprivileged sections of the society. At present, around 20-25 students from standard VI-IX were helped to cope up with mathematics. The project is also involved in spreading awareness among females on personal hygiene. The Department of Food Technology along Biomedical Sciences and Instrumentation departments conducted one-month interdisciplinary summer internship workshop on “Analytical Instrumentation, Food Processing and Life Science Techniques” from 4 June - 1 July 2018. The North East Cell of College put up a special stall displaying the street foods of Sikkim during the Cultural fest of college.

### **Library Developments**

Budget for Books: Rs 954228/-; Journals and newspaper: Rs. 49181/-; Non-recurring: Rs.528739/-; Number of Books added: Printed -723, E-Book-135000; Journals: Printed -19, E-Journal -5000 (Nlist) + 42000 (DULS)

### **Faculty Strength**

Total sanctioned faculty: 94

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 172435850.91

Grant utilized: Rs. 209955638.50

### **Other Significant Information**

In association with CISCO, college is running CISCO Networking Academy since 2002. The Academy offers CCNA (Cisco Certified Network Associate) certification and various other exploratory courses. This year our two instructors Ms. Deepali Bajaj and Ms. G. Vijaya have successfully completed “Cisco Application Policy Infrastructure Controller Enterprise Module” (APICEM) course. College collaborated

with Translational Health Science and Technology Institute (THSTI), an Institute of the Department of Biotechnology, Government of India, under prestigious Science Setu Program. The college has introduced a short term music course on "Sugam Sangeet" for the first time for the students and faculty. The college also organized activities such as International Yoga Day, International Youth Day, Sankalp Se Siddhi, NSS Orientation Day, Literacy Drive, Old Age Home/Orphanage Visit, Collection drive, Graffiti Competition, Swachta Hi Sewa, NSS Day, Diwali Mela, National Youth Day, Sport's Day, Lecture on Drugs, Scooty Driving Training Program etc.

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## **SHAHEED SUKHDEV COLLEGE OF BUSINESS STUDIES**

### **Major Activities and Achievements**

SSCBS has been ranked No.2 for undergraduate business management course by India Today rankings released on 2019. Further, India Today has ranked SSCBS first in college with the best Intake quality and governance, career progression & placement, highest salary offered, lowest tuition fee, value for money, and perception. The student placement has been highly successful with the highest package offered INR 18 Lakhs p.a. and average package being INR 6.9 lakhs p.a. SSCBS in collaboration with University of Delhi and the Institute of Cyber Security and Law, launched a 42 week Post Graduate Diploma in Cyber Security and Law (PGDCSL). The college extended services for its students by offering air-conditioned accommodation in its girls and boys hostel. Further, Certificate Course on Data Analytics for Business was launched by the college for professionals and undergraduates, offering insights into machine learning, statistical methods for data analysis, python/R programming, neural networks and deep learning.

### **Students with Distinctions**

Student of SSCBS made the Guinness World Record for Most Decimal Places of Euler's Number Memorized (3141 digits).

First prize at Lufthansa Impact Week 2018 (International workshop organized by the incubation center of SSCBS on using design thinking techniques for solving social problems, held for first time in Asia under Lufthansa's global CSR initiative).

National Winner - Duff & Phelps YO University Deal Challenge

First prize at MICA IMPETUS, the biggest national undergraduate case study competition by MICA.

Students of SSCBS Qualified in the top 10 teams at Harvard Global Case Study Competition competing with HEC Paris, Oxford University etc.

Students of SSCBS won of KPMG Ethics Grant 2018 (Rs.25000)

### **Publication**

Arora, A. (2018). When Economies Jitter, Bitcoin Flutters: Evidence from the impact of Macroeconomic Factors on Bitcoin Returns. *Business Analyst*, 29(1), 3-25.

Jaggi, C. K., Kausar, A., Tiwari, S., and Gupta, M., (2019) "Inventory and credit decisions for deteriorating items with displayed stock dependent demand in two echelon supply chain using stackelberg and Nash equilibrium solution" published at *Annals of Operations Research*, 274(1), 309-329

Kumar, R. (2019) "Impact of Various Demographic Factors on Consumer Behaviour – An Empirical Study of Electronic Products in Rural Himachal (India)" *Indian Journal of Economics & Business*, 19(1), p.109-127

Kumar, R. (2019) "Social Entrepreneurs Reforming Agriculture Sector: A Solution to Feed the World" Conference Paper Thirteenth Biennial Conference on Entrepreneurship February 20-22, 2019 organized by EDII Ahmedabad, Gujrat. ISBN: 978-93-8 6578-39-6 (Vol. II) 957-967.

Maurya, A., Bansal, C., Singh, S., and Sushmita (2019). Economic Crisis Modeling: Data based approach to generalize effect of a crisis. *International Journal of Engineering and Future Technology*, 16(2) ISSN 24556432.

Sushmita, Bhatia, B., Sharma, S. (2018). Investor Overconfidence and disposition Effect: An Evidence from India, *Indian Journal of Research In Capital Markets*, 5(3) p. 31-41

Sushmita, Sharma, U. (2018). A Study of Tradeoff between Monthly Allowance and Pattern of Saving Behavior among Students, *Vivekanad Journal of Research*, 7(2),p.128-136, ISSN 2319 8702

Sushmita, Prajapat, V. (October - December 2018). Comparative Analysis of Online and Offline Shopping, *International Journal of Social Science and Humanities Research*. 6(4), p:979-998, ISSN 2348-3164 (online), Available at: [www.researchpublish.com](http://www.researchpublish.com)

Verma, P. (2018) "Behavioural Mechanism to Overcome Leadership Challenges: The Role of Inward Looking Leadership" *MANTHAN: Journal of Commerce and Management*, 5(2), Journal Press India, Print ISSN: 2347-4440; e-ISSN: 2395-2601

### **Journals**

Number of college teachers serving as editor(s), Member(s) of Editorial Board : 3

### **Research Projects**

Dr.Abhishek Tandon, "A Study on Consumerism, Market Competition in Digital Era" funded by ICSSR, MHRD for the year 2018-20 with the grant of Rs 7,52,500.

### **Seminars Organized**

Mayukh Datta, Zonal Head, MIRAE ASSET Management Co. Ltd. Delivered a talk on "How to Create Wealth Smartly" on 28 January 2019

Sreejith S.G and Prof. Anand Prakash Mishra delivered a talk on "University Game theory and Law" on 26 February 2019

Rohit Jhamb, Senior Client Director, Ipsos, Netherlands, gave lecture on "Role of IT in Market Research" on 28 February 2019

Saurabh Madan, Assistant Director, NASSCOM Foundation; Head: Communications and Program Lead, delivered a talk on "Best practices against fake information" on 3 April 2019

Amrendra Kumar, Head, Partnerships & Supply Chain Management, Tata Steel, delivered a talk on "Imagination, Execution and Modeling of Supply Chain Management" on 12 April 2019

### **Seminar/Conference Presentation**

Ramesh Barpa, "Asserting the Current Scenario of E-Waste through the Perspective of Indian Households: A Case of Delhi" at 71st All India Commerce Conference held at Osmania University 20-22 Dec 2018

Narander Kumar Nigam, The 18th Consortium of Students in Management Research (COSMAR) – organized by Department of Management Studies, IISc Bangalore; Paper titled: Correlation-based Diversification and Firm Performance: An Empirical Investigation of India.

Ramesh Barpa, "Social Entrepreneurs Reforming Agriculture Sector: A Solution to Feed the World" Thirteenth Biennial Conference on Entrepreneurship 20-22 February 2019 organized by EDII Ahmedabad, Gujrat.

Narander Kumar Nigam, FLAME 2nd International Conference 2019 – FLAME-University Pune; Paper titled: A Study of Correlation-Based Diversification and Firm's Financial Performance: Evidence from Indian firms.

Narander Kumar Nigam, International Conference on finance and Applied Economics – MM'S IMERT PUNE; Paper titled: Negatively and Positively Related Firm Diversification: Measurement and Implications.

Abhimanyu Verma, Paper titled: 'Country-of-Origin Effect in the Era of E-Commerce: A Conceptual Overview' presented in Conference on "Envisioning India 2.0: Economic Policies: Prospects & Challenges" organised by Jaipuria Institute of Management on 1 December, 2018.

Dr. AmrinaKausar, AmrinaKausar, Sanya Kapoor, Ayush Mohanty and Chandra K. Jaggi: "An Empirical study of sustainable supply chain in FMCG sector" at an International Conference on Emerging Trends in Inventory, Supply Chain & Reliability Modeling, held at University of Delhi, Delhi, during 21-23 December 2018.

Gurjeet Kaur, "ANN-PROMETHEE Model for Portfolio Optimization" in CEGR International Management Conclave, 29 June 2018.

### **National/ International MoU signed**

MoU signed with BSE for running the FMAT (Financial Modeling and Algo Trading) course.

MoU signed with NSE for running the NCCMP (NSE Certified Capital Markets Professional) Course

MoU signed with Chartered Institute of Management Accountants (CIMA)

### **Other Inter-Institutional Collaborations**

Certificate Course on 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).

One student from Colombia is studying Global Business Organization under Bachelor of Business Management of SSCBS. The student is associated with the college under exchange program with UniveisidadExternado de Colombia in the light of MOU between University of Delhi and UniveisidadExternado de Colombia.

### **Placement Details**

Number and percentage of students placed: 177 (84.29% )

Number of companies visited for campus recruitment: 52

### **Extension and Outreach Activities**

Enactus chapter at the college is undertaking 3 social entrepreneurial projects- Project Raahat, Project Udaan and Project Khidki. Project Raahat works in the area of developing mechanism for sensitization and monitoring the usage and compliance of Govt norms in the Community toilet complex (CTC) in urban slums with the aim of eradicating open defecation. Project Udaan works in the area of e-waste management and digital literacy in villages. Project Khidki is a project working closely with Anganwadis in Delhi to tackle the problem of malnutrition among children.

As part of the above initiatives the college team regularly works with Govt agencies, health and medical agencies and NGOs and conducts sensitization camps, hygiene camps, pregnancy and menstrual awareness camps, eye check camps and financial literacy camps in villages and urban slums. Manthan-An International street theatre festival was organised by Verve-The Street Play Society of SSCBS.

### **Library Development**

The total number of books in the library is 22,295. In addition, the library subscribes to 53 magazines and journals of national and international repute and 13 national and business newspapers. The library has access to electronic resources i.e. Electronic Journals, Reports, and Case Studies through Delhi University

Library Network includes 02 Federated/Common Search Engines namely JCCC and Knimbus, 10 Reference & Citation Sources, 06 Bibliographic Sources, 02 Citation Analysis Resources namely, Scopus and Web of Science and other full text databases in the field of Management Studies and Computer Science etc. This year, the library added 883 textbooks and reference books for an outlay of Rs. 4,98,065/-, 53 periodicals for Rs. 1,80,066/- and 13 newspapers for Rs. 25,373/-. On the electronic front, the library spent Rs. 13,570/- and Rs. 5,900/- to subscribe to digital databases, DELNET and N-LIST respectively.

### Faculty Strength

Permanent - 32

Ad Hoc - 10

### Financial allocation and Utilization

Received	Utilized	
Grant-in-Aid (General)	Rs 2,47,81,235.69	Rs 2,99,97,536.00
Grant-in-Aid (Capital Assets)	Rs 42,34,251.00	Rs 7,83,734.00
Grant-in-Aid (Sports Facilities)	Rs 12,92,200.00	Rs 79,129.00
<b>Grand Total</b>	<b>Rs 165573626.8</b>	<b>Rs 147822606</b>

### Other significant Information

The college is in the process of seeking approval for introducing two new courses at the undergraduate level in BBA (Entrepreneurship). It has also been working at increasing the strength of intake for its B.Sc. (Hons.) Computer Science course.

Post Graduate Diploma in Cyber Security and Law (PGDCSL) course was started in September 2018 with Lucideus Tech. Pvt. Ltd. as a knowledge partner. This is the first course operating in Public-Private Partnership mode.

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## SHIVAJI COLLEGE

### Major Activities and achievements

Shivaji College, accredited with grade 'A' by NAAC is now amongst an elite list of colleges who are funded by the Department of Biotechnology, Govt. of India, under the Star College Scheme. A nationwide survey by India Today in 2018 ranked our College at 11th position in Humanities, 12th in Science and 11th in Commerce, among all colleges in Delhi. Shivaji College lies amongst the top 40 colleges in various streams of science, arts and commerce. The National Institute Ranking Framework (NIRF), MHRD, Govt. of India, placed Shivaji College at 54th position amongst all the colleges of the country. The college champions the cause of gender parity and has been presenting Jijabai Achievers' Awards since 2010, to exceptional men and women who work at the grassroots level for upliftment of women. The Women's Development Cell organised an International Seminar, titled 'GenderParity: Issues and Challenges', in collaboration with Niti Aayog, FICCI, SHEROES and the Delhi State Legal Services Authority. During this event the Jijabai Awards were presented and a book titled "Samtulya: philosophical to existential equality" was released.

### Honours/ Distinctions

The herbal garden of the college, which maintains a wide variety of medicinal plants, was awarded the Dr. Meenakshi Gopinath Cup for the 'Best Herbal Garden in the University'.

Dr. Shashi Nijhawan “World Award for Value Education (WAVE)” by the Board of Governors of the Indian Institute of Ecology and Environment and Confederation of Indian Universities, 2019.

Dr. Tejbir Singh Rana “Meritorious Teachers Award 2018” by Government of NCT -Delhi and reward of Rs 1 lakh.

Dr. Ruchira Dhingra “Women Empowerment Award 2019” for social work by Aaj Ki Delhi and DD News on March 8, 2019 and “Women's Excellence Award 2019” by Healthy Universe foundation in association with S2S classes and Rajneeti Ki Pathshala on March 8, 2019 at YMCA

Dr. Deepika Yadav “11th DNA Innovative Education Leadership Award” for the Best Professor In Zoology Studies at Taj Lands’ End, Mumbai and “Best poster presentation Award” for, “*Unifying Community Living And Wildlife Conservation through Sustainable Ecotourism*” at International E- summit on “Entrepreneurship development through Ecotourism in Northeast India” on February 14 2019 at Shivaji College, University of Delhi.

### **Students with Distinctions**

Shubhangi Sangwan of B.Sc (Hons.) Botany IIIrd Year was selected for “Meritorious Award (University Rank Holder- III position)” by Faculty of Science, University of Delhi.

Ayush Ganguli of B.Sc (Hons.) Biochemistry IIIrd Year was awarded “Student of the Year Award” for the academic session 2018-19. He pursued Job training programme for PDB and Bioinformatics and product designing at Klink International, Kuala Lumpur, Malaysia from May 26-June 25, 2018 and also undertook a Project on ‘Optical fibre Analysis ’ at IIT Delhi from July 2-9, 2018.

Nishtha Sethi of B.A (Hons.) Economics IInd Year was selected as one of the 300 delegates at HPAIR-Harvard College Project for Asian International Relations from over 90 countries. She also designed a working prototype of a self-cleaning toilet seat at ‘Delhi Design Innovation Bootcamp’ organized by DU, SPA, and IIT -D. She also worked in the core team of an IIT- D incubated start-up MyWays as a content writer.

Rishabh Upadhyay B.A (Hons.) English IIIrd Year Secured first position in Intercollege Best Physique tournament, 75 kgs category ,organised by DUSC, University of Delhi and also secured fifth position in Inter University Best Physique tournament, 75 kgs category , organised by All India National Inter University Championship.

Sukriti Sharma of B.Sc (Hons.) BiochemistryIst Year participated in solo singing competition and won first position in annual cultural fest of Maharaja Institute of Management Studies, second position at DIAS and third position at Oktoberfest organised by College of Vocational Studies, DU. She won first and third position in duet singing competitions at AUD@CITY 2019 organised by Ambedkar University and Sri Guru Gobind Singh College of Commerce respectively.

### **Publications**

Arora, R., Issar, U., & Kakkar, R. (2018). Theoretical investigation of organotin (IV) complexes of substituted benzohydroxamic acids. *Computational and Theoretical Chemistry*, 1138, 57-65.

Arora, R., Issar, U., & Kakkar, R. (2018). Identification of novel urease inhibitors: pharmacophore modeling, virtual screening and molecular docking studies. *Journal of Biomolecular Structure and Dynamics*, 1-15.

Bhattacharya, A., Gupta, A., Kaur, A., Malik, D. (2018). Remediation of phenol using microorganisms: sustainable way to tackle the chemical pollution menace. *Current Organic Chemistry*, 22(4), 370-385.

Devi, K., Rajendran, V., Rangarajan, T., Singh, R., Ghosh, P., & Singh, M. (2018). Synthesis and Evaluation of Antiplasmodial Activity of 2, 2, 2-Trifluoroethoxychalcones and 2-Fluoroethoxy Chalcones against Plasmodium falciparum in Culture. *Molecules*, 23(5), 1174.

Kumar, V., Jolli, V., & Babu, C. R. (2019). Avenue plantations in Delhi and their efficacy in mitigating air pollution. *Arboricultural Journal*, 1-13.

Mishra, P. K., Rai, A., & Rai, S. C. (2019). Land use and land cover change detection using geospatial techniques in the Sikkim Himalaya, India. *The Egyptian Journal of Remote Sensing and Space Science*.

Priyanka, K., Trisandhya, P., & Mittal, R. (2018). Dealing sensitive characters on successive occasions through a general class of estimators using scrambled response techniques. *METRON*, 76(2), 203-230.

Tiwari, A., & Mishra, P. K. (2019). A Study of Urban-Landscape Characteristics of Bhopal City (India) in a Geo-Spatial Environment. In *Making Cities Resilient*. 207-226. Springer, Cham.

Singh, A., Sharma, A., Tomar, M., & Gupta, V. (2018). Growth of highly porous ZnO nanostructures for carbon monoxide gas sensing. *Surface and Coatings Technology*, 343, 49-56.

Sharma, A., & Rana, T. S. (2019). Identification of Social Norms in Conserving and Utilizing Biodiversity in Aligarh District, India. In *Making Cities Resilient*. 253-266). Springer, Cham.

### **Research Projects**

Dr. Kumari Priyanka. Project Investigator of SERB funded major Research Project entitled “Design and Analysis of Sensitive Issues on Successive Occasions and its Applications” [Ref No. EMR (2016)/000455].

Dr. Prabuddh Kumar Mishra. Project Investigator of ICSSR funded major Research Project entitled “Indigenous Ecological Knowledge for Soil, Water and Nutrient Conservation in Sikkim Himalayas” (2017-2019).

Dr. Sunita Gupta, Ms. Nimita Kant and Dr. Parul Kulshreshtha. Project Investigators of DBT funded minor project entitled “To record the seasonal variation of invertebrate biodiversity in Riparian zone of the Yamuna River in Delhi-NCR region by using foldscope as a research tool” (2018-2019).

### **Patents Filed/ Granted**

Mr. Avneet Singh along with Prof. Vinay Gupta, Monika Tomar, and Anjali Sharma filed a patent at Indian Patent Office titled “Electric Field Assisted Low Power Consuming Conductometric Gas Sensor” on February 18, 2019 (Application No. 201811006329).

### **Seminars organized**

An International Seminar on “Gender Parity: Issues and Challenges” organised on 15-16 January, 2019.

Two days National Seminar titled “Dynamics of Language in History” was organized by the department of History. from 28 February – 1 March, 2019.

DST Inspire Science Camp was organized by the science departments from 16-20 July 2018.

Department of Botany organised lecture series with the following speakers:

Padmashri Prof. S. K. Sopory, SERB distinguished fellow of the Department of Science and technology, Govt. of India, International Centre for Genetic Engineering & Biotechnology, New Delhi, “Sensory Perceptions in Plants”, August 30, 2018.

Prof. Atul Narang, Head, Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology, Delhi, “Application of Biochemical Engineering Principles to Ethanol and Recombinant Protein Production”, January 29, 2019.

### **Conferences organized**

Entrepreneurship Development Cell (EDC), Shivaji College, in collaboration with Institute of Bioresources and Sustainable Development (IBSD) Imphal and Niti Aayog, organized an International E Summit, on the theme, “*Entrepreneurship Development through Ecotourism in Northeast India*” on February 14-15, 2019.

Department of Biochemistry organised one day National Symposium on "Recent Trends in Biological Sciences" on the 10th of April, 2019.

### **Seminar/ Conference Presentation**

Sunita Singh presented the paper presentation titled "Friccohesity and Survismeter: New trends for low surface energy nano-emulsions and Physicochemical Sensors" in International Conference on 'Recent Advances at Interfaces of Physical and Life Sciences' RAIPLS-2019 organised by Department of Chemistry, University of Rajasthan, Jaipur held from 28-30 January 2019.

Anjali Raman presented a paper titled 'Attitudes Towards Roma: The Prejudice and Marginalisation They Face' at the International Conference on Romani Language, Linguistic Rights and Linguistic Justice (ICRLLRLJ) organised by the Centre for Linguistic Justice and Endangered Languages in collaboration with the National Institute for Oriental Languages and Culture, Paris (INALCO) held on 5 December 2018 at the National Law University, Delhi.

Prabuddh Kumar Mishra presented a paper 'Climate Perception of Local Communities in Farming Systems of the Sikkim Himalaya' at International Seminar on Environment and Climate Change, organised by Vishwa Bharti University, Shanti Niketan, West Bengal. 19-20 January 2019.

Ruchira Dhingra presented a paper 'Hindi Premakhayanak Padmavat MaiLoktatv' in an International Seminar on 'Bhartiya Deshag Sahitya: Premakhayanak', organised by ARSD College on 29-30 January 2019.

Darshan Pandey presented a paper 'Prasad yugeen hindi natakon mein stri chetna' in International Seminar organised by JDM College, Delhi University on 3 November 2018.

Kumari Priyanka presented a paper titled 'Mathematical Modeling of Sensitive Issues on Successive Occasions' at International Conference on Mathematical Modeling and Computations, held on 01-03 December 2018 organised by Department of Mathematics, SAU, New Delhi.

Nimita Kant gave a poster presentation (PP-62) "Correlation and prognostic significance of programmed deathligand 1 and p53 mutational status in eyelid sebaceous gland carcinoma" at International Conference Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019) organised by: Centre for Global Health, Hansraj College, University of Delhi, Delhi, India Loyola University Chicago Stritch School of Medicine, USA on 25-26 February 2019.

Parul Behl presented a paper at: AGBA's 15th Annual World Congress held at NIDA in Bangkok, Thailand on 2-4 July 2018.

Richa Arora presented Poster on "In Silico Study of the Active Site of Helicobacter pylori Urease and its Inhibition by Hydroxamic Acids" in the International conference on Pure and Applied Chemistry held in Mauritius, from 2-6 July, 2018.

Virat Jolli presented a paper titled 'Citizen Science: A tool for promoting conservation of Himalayan Birds', on 20-21 November 2018, at British Ornithologist's Union 2018 Twitter Conference, United Kingdom.

### **National/ International MOU's Signed**

MOU with Mahidol University, Thailand

Entrepreneurship Development Cell (EDC), signed a Letter of Intent with Niti Aayog to provide new opportunities for the students.

MOU with FICCI flo



## **Placement Details**

Number of students placed: 58

Number of companies visited for campus recruitment: 31

## **Extension / Outreach activities**

NCC organised a Traffic Awareness Programme in association with Delhi Traffic Police on 24 August 2018. NCC cadets participated in cleanliness campaign in the college and nearby places under Swachh Bharat Pakhwada on 15-16 September 2018. NSS organised a cleanliness drive on 8 August 2018, by formation of human chain and poster rallies. A Campaign for 'Better Sanitation Practices' was held on September 18, 2018. Enactus Shivaji organised 'Daan Mahotsav' to collect books, school supplies, clothes, shoes etc. for donation. Department of Biochemistry and Department of Zoology organised a Health Mela in collaboration with West District Legal Services Authority (WDLA) for all teaching and non-teaching staff and students on 31 October 2018. Leaders for Tomorrow organised a donation drive from 5-7 September 2018 to collect stationery goods for school students affected by Kerala Floods. A Grain Donation Drive in collaboration with FEEDING INDIA was held on 21-23 January 2019. Blood donation camps were organised by NSS, NCC and Leaders for Tomorrow.

## **Library Development**

Shivaji College has a fully automated library with air conditioned reading hall for students and teachers. In the academic session 2018-2019 about 1557 books have been added to the library collection. For the visually impaired students, Braille kits consisting of 286 Braille books with CDs, 33 Angel devices and one lex portable camera reading system are available in the library. All students and teachers are provided separate login IDs to have access to the INFLIBNET e-journals within and outside the campus.

## **Faculty Strength**

Permanent - 105

Adhoc - 96

## **Financial Allocation and Utilization**

Grant sanctioned - Rs. 56.57 crores

Grant Utilized - Rs. 51.08 crores

## **Other Significant Information**

Shivaji College organized its first ever TEDx event on 24 August 2018. The event was themed 'F5: Refresh' and it was an amalgam of talks by speakers from different walks of life. The event saw the presence of young social entrepreneurs Suhani Jalota, founder Myna Mahila Foundation, Rudrani Chettri, the founder of MITR Trust, former Indian cricketer Mohammad Kaif and his wife Pooja Yadav Kaif, Professor Niladri Chatterjee from IIT Delhi, Amrut Bhat, founder of Drum Circle, Anamika Singh, founder of Anamika's Dance and Arts Academy, Divya Prakash Dubey, Hindi author and a storyteller, Shruti Sharma, the founder of 'Books on Delhi Metro' initiative.

In an effort to promote Indian art forms the college organized 'Virasat 2018', in collaboration with Spic Macay. The event was graced by Padmashri Geeta Chandran and Padmashri Bhajan Sopori. The annual cultural festival 'Vibrations' was graced by Indian filmmaker and visionary Muzaffar Ali. Shivaji College has one of the largest sports grounds among the colleges of Delhi University. Facilities for games like cricket, football, basketball, chess, softball etc are provided to the students. Our students are playing for Ranji Trophy and other state level tournaments.

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## SHRI RAM COLLEGE OF COMMERCE

### Major activities and achievements

During the year, the College launched a value added certificate course in Business Data Analytics,. The College in collaboration with Isha Foundation hosted *Sadhguru* in the inaugural event of *Youth and Truth: Unplugged with Sadhguru*. A unique initiative titled ‘Alumni Lecture Series’ covering topics like “How to Make Money in Stock Markets” and “Budget 2019” was commenced. Counselling Services comprising psychological and career counselling sessions were launched in the college for various stakeholders on virtual and face-to-face platforms. Similarly, twenty-eight international programmes were organised by the office of International Programmes of the college. The college also expanded its institutional social responsibility by undertaking several new extension activities and projects at the state and national level such as financial literacy by Vittshala, SRCC, urban literacy by NSS, SRCC, and clean drinking water by ENACTUS, SRCC.

### Honours/ Distinctions

Ranked Number 1 College for Commerce by “India Today Survey” on India's Best College for Commerce, 2019.

### Students with distinctions

Tripti Goel secured 1<sup>st</sup> Rank, M.Com.

Smita Rai: 1<sup>st</sup> Rank, PG Diploma in GBO

Deepika Kumar: 1<sup>st</sup> Rank, B. Com. (Hons.)

Nikita Gupta: 1<sup>st</sup> Rank, B. A. (Hons.) Eco.

### Publications

Ahuja, G., Gupta R. (2018): Systematic Approach to Income Tax. New Delhi: Flair Publications.

Chadha, R., Chadha, S. (2018): Corporate Laws. Delhi: Scholar Tech Press.

Deepashree. (2018). Principles of Macroeconomics. New Delhi: Scholar Tech Press.

Jain, V. (2019). Entrepreneurship. Delhi: Singhal Publication.

Jawa, R., Kumar, H., & Athili, N. (2018). E-Marketing (2nd ed.). Delhi: Singhal Publications.

Kaur, S (2018). Hunger and Malnutrition as Major Challenge of the 21<sup>st</sup> Century. World Scientific Publishing Company Limited.

Kumar, A., Gupta, L., & Arora, J.R. (2019). Auditing and Corporate Governance (2<sup>nd</sup>ed.). Delhi: Taxmann

Prakash, S. (2018). Marketing Management. New Delhi: Kalyani Publisher.

Rustagi, R.P. (2018). Fundamentals of Financial Management. Delhi: Taxmann Publications.

Thukral, J. K. (2018). Calculus. Delhi: Maximax Publishing House.

### Journals Published by the College

Business analyst: Bi-annual Research Journal

Strides: A student’s journal of SRCC : Students Research Journal

Number of college teachers serving as Editor(s) : 9

### **Seminars Organized**

Five-day National Workshop on “**Contemporary Economic Issues and Research Methods**” (March 2019).

Workshop on “E-Views 10” during March 2019.

Alumni Lecture Series organized by IQAC during October 2018- February 2019.

Two-day National Workshop on “Time Series Analysis” organized by during November 2018.

Workshop on “Prowess IQ and Economic Outlook” organized by IQAC during August 2018.

### **Conferences Organized**

International Conference on Empowering Women: Fostering Entrepreneurship, Innovation and Sustainability jointly organized by the office of International Programmes, Shri Ram College of Commerce (OIP-SRCC) and NITI Aayog’s Women Entrepreneurship Platform (WEP) on 16-17 July 2018 at India International Centre, Delhi. The chief guest for the conference was Shri Venkaiah Naidu, Hon’ble Vice President of India, Guest of Honour was Dr. Kiran Bedi, Hon’ble Lieutenant-Governor, Puducherry and Shri Amitabh Kant, CEO, NITI AAYOG as distinguished guest.

GBO Global Business Summit 2019, SRCC, organized its Annual Flagship event, The Global Business Summit 2019, on 01-02 March 2019 on the theme Envision 360° - A Paradigm Shift to Globalism. The inaugural address for the summit was delivered by Prof. I.M. Pandey, Director General, Delhi School of Business. Mr. Ashok Bhasin, Head-Digitization, Hero Motocorp and Mr. Kusumakar Pandey, Vice-President, Godfrey Philips India Pvt. Ltd. were the Keynote speakers of the summit.

The Internal Quality Assurance Cell, SRCC and Isha Foundation jointly organised the event “Youth and Truth: Unplugged with Sadhguru” on 4 September 2018.

### **Seminar/Conference Presentations**

Anil Kumar presented paper titled “Corporate Governance in Non-Banking Financial Companies in India: A Case of IF&LS” at the AU International Conference in Business & Economics on ‘Sustainability, Business Opportunity, and Social Responsibility: An Asian Perspective’ held in Thailand on 13-15 March 2019.

Asheerwad Dwivedi presented paper titled “Infrastructure and Population: An empirical assessment of Urban India” at the International Conference on Population and Development of Asian Development countries, organized by Institute of Population Studies, Yunann University and Peking University held at Kunming, China from 6-8 August 2018.

Kuljeet Kaur presented paper titled, “Topography of Personality traits among university students pursuing deferent interest,” at the International Conference on Olympics and Indian Values in Global Context, organized by Kirori Mal College, University of Delhi held on 25-27 September 2018.

Priyanka Agarwal received Best Paper award for presenting a paper entitled "CSR and Organizational Commitment: A Meta-Analysis" co-authored with Prof. R. K. Singh at the Academics Era 22<sup>nd</sup> International Conference, Oxford, UK held on 19-20 June 2018.

Rajeev Kumar presented paper entitled 'Determinants of Indo-Gulf Labour Migration and Remittances' at CMAI's 6th International Conference held at the University Sains Malaysia at Penang, Malaysia held from 28-30 January 2019.

Santosh Kumar presented paper entitled "Evolution of Monetary Policy in India and Contribution of Dr. BR Ambedkar" in a National Seminar on "The Vision of Dr. B.R. Ambedkar for Socio-Political and Economic Empowerment in the Constitution of India" organized by Dr. Ambedkar International Centre, New Delhi on 26 November 2018.

Shikha Makkar presented paper entitled “Excellence in Higher Education: Measuring the influence of Spirituality on Teacher’s attitude at work” at the ICSSR sponsored XX Annual International Conference on Global Vision 2030: Challenges and opportunities held at Deen Dayal Upadhyaya College, New Delhi, on 4-5 January 2019.

Surya Prakash presented paper entitled “Effect of FDI on Indian Retail Sector: A Case Study of Delhi Region” at 101<sup>st</sup> Annual Conference of Indian Economic Association, organized by IEA and ISIS Campus, New Delhi held on 14-16 December 2018.

Suman Bhakri presented paper entitled “FDI: A Real Boost to Growth of Emerging Economies”, at the International Conference on Economics, Finance and Statistics, IETI, Hong Kong held on 14-15 April 2018.

Vandana Jain presented paper entitled “ Innovation and women entrepreneurship in India: The road ahead”, at the two-day International Conference on “Empowering Women: Fostering Entrepreneurship, Innovation and Sustainability” jointly organised by SRCC and NITI Aayog's WEP held at India International Centre, New Delhi, 16-17 July 2018.

#### **National / International MoUs Signed With Indian/ Foreign Universities: 6**

MoU signed with Melbourne Business School, Australia

MoU signed with Thammasat University, Bangkok, Thailand

MoU signed with Gedu College of Business Studies, Gedu, Bhutan

MoU signed with Reserve Bank of Indian Academy

MoU signed with ICLS Academy, Ministry of Corporate Affairs, Govt. of India

MoU signed with Government College for Women, Gandhi Nagar, Jammu.

#### **Other Inter-Institutional Collaboration**

Cultural : UNESCAP, Thailand; Startups: Ministry of Youth Affairs, India; Innovation: Greenfit; Educational: Australian National University, Australia, Melbourne Business School, Australia, University of British Columbia, Canada, University of Chicago

#### **Students under Exchange Programme**

Inbound: Organized **23** inbound programmes wherein students participated from Penn State University, University of Wolverhampton, Melbourne Business School, Hong Kong University, University of Wisconsin, Tsinghua University, Hague University, etc.

Outbound: Organized **6** outbound programmes wherein students went to Utrecht Business School (Netherlands), SRCC-Ministry of Youth Affairs Exchange Programmes 2018 (South Korea), BRICS Youth Summit 2018 (China), Indian Youth Delegation to Thailand 2018, etc

#### **Placement Details**

##### **Post Graduate Students**

Number and percentage of students placed: 42 Students (93.3%)

Number of Companies visited for campus Recruitment: 35

##### **Under Graduate Students**

Number and percentage of students placed: 290 Students (56.53%)

Number of Companies visited for campus recruitment: 90

### **Extension and Outreach Work**

SRCC college carried out following projects during the year 2018-19: Project Kushali, (Sonapat, Haryana) for empowering rural communities; Project Sashakt (Rohini, Delhi) for empowering urban slum dwellers; Project Samarth (D.U., Delhi) for making rikshaw puller financially literate; Project Utthan (Kamla Nagar, Delhi) for Making Hawkers & Vendors Financially Literate and many more. 'Tatva'-The Annual Green festival organised by Centre for Green Initiatives, SRCC. Project Sanjeevani (Delhi) for providing self-sustainability to women; Project Arpan (Delhi) for providing self-sustainability to incense makers; Project Dream Library (Delhi) for donating Books to slum schools in Delhi; Project Arogya (Delhi) for establishing simplified supply chain of sanitary pads and Project Anshumi (Delhi) for creating self-sustaining entrepreneurship model Project Astitva (Haryana) for improving market distribution mechanisms; Project Asbah (A.C.Nagar, Delhi) for providing clean drinking water; Project Virasat (Amritsar) for providing self-sustainability to tatheras and Project Nidan (Delhi) for primary Health Care were also carried out.

### **Library Development**

1600 books added in the year 2018-19. Library employs the latest software in library sciences, Libsys version 7, to cater to its users. A separate archives section has been set up in the library to preserve and highlight the history of the college. Library acquired E-Views Version 10, the latest version of E-Views research package. It has renewed the annual subscription to research based software Prowess IQ, a financial database offered by CMIE. Subscribed Urkund, the leading anti-plagiarism software.

### **Faculty Strength**

Permanent - 59

Ad Hoc - 67

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 2768.64 Lacs

Grant utilized: Rs. 2692.38 Lacs

### **Other significant information**

To provide greater accommodation facilities to female students, a new Girl's Hostel with the capacity of accommodating 180 girls has been constructed. To promote the use of clean transport and enhancing the environmental responsibility profile of the College, the Centre for Green Initiatives, launched the Green Ride Public Bicycle Sharing Service in collaboration with Green Ride Pvt. Ltd. Over 2500 trips have been made by the SRCC fraternity in fifty days, averaging over 50 trips per day.

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## **SHYAM LAL COLLEGE**

### **Major Activities and Achievements**

The college has secured rank 41 in the MHRD NIRF ranking of colleges in India. The college has started an add-on course on "Stock Market and Expert Trade" and has also begun new Foreign Language Courses under the aegis of Department of Germanic & Romance Studies, University of Delhi, adopted Shahdara Mandi and Hanuman Seva Basti, Jhilmil for several welfare measures and has organized, for the first time, "East Delhi Flower Show 2019" in collaboration with DCP office, Delhi Police, Shahdara. Academic Affairs and Monitoring Committee (AAMC) of the College started Interdisciplinary Student Research projects namely Parivartan; Food Follow and Gas Leakage Detector. Innovation Center (IC) under MHRD's Innovation Council has taken pioneer initiatives and has mobilized students towards developing innovative ideas and participate in Idea competitions.

## Honours/Distinctions

Prof. Rabi Narayan Kar, Principal has nominated as Visitors Nominee for Viswa Bharti University, Shantiniketan, West Bengal.

## Students with Distinctions

Mr. Sachin Malik, B.A. (Programme) Part III won Bronze Medal in Junior Asian Judo Cup 2018-19 at Macau.

Mr. Ashu Dutt Bhardwaj, B.A. (Programme) Part I won Gold Medal in I.M. Spring Board Diving event in All India Inter-versity Aquatic Championship 2018-19 held at Bangalore.

Mr. Abhay Obroi was selected for the NSS Adventure Camp from 12 -21 September 2018 at the Regional Sports Centre, Pong Dam affiliated to ABVIMAS(*AtalBihari Vajpayee Institute of Mountaineering and Allied Sports*). He also made the college proud by representing the Delhi state at the Pre-RD Camp held at SIKAR (Rajasthan) from 12- 21 October 2018.

Ms. Priya Das participated in the poster making competition and secured 2nd position organized by National Organ and Tissue Transplant Organization (NOTTO) in collaboration with NSS unit of SRCC on 4 October 2018.

Mr. Abhay Oberoi, Mr. Sai Vaishnavi and Mr. Gaurav Singh were selected Best Interns under the “Swachh Bharat Summer Internship”.

Mr. Rohan and Mr. Gaurav Singh were chosen to be the SVEEP Ambassadors of college and participated in a seminar on “Challenges to Indian Electoral Democracy” at India Habitat Centre, Gulmohar Auditorium Delhi.

## Publications

Arora, K. (2018) “A Comparative Analysis of risk, Adjusted Performance of Mutual Fund Scheme in India” in MAIMT-Journal of IT and Management. 12 (1)1. 20-44. ISSN 0974-066X.

Arora, A., Bansal, S., Patrick, S. Ward (2019) “Do farmers value rice varieties tolerant to droughts and floods? Evidence from a discrete choice experiment in Odisha” *Water Resources and Economics*, Elsevier Publication 25(27-41).

Dabas, N. “ELM-Kernel and reduce kernel ELM based watermarking scheme” in *Journal of Information Security and Application*, Elsevier.

Kumar, S. (2019) “Repeated burst error correcting linear codes over  $GF(q);q=3$ ”. *Communications in Computer and Information Science (CCIS)*, Springer.

Kumbhar, S. “Urban Governance in India”, in Abhay Pratap Singh and K. Murari, Eds. *Constitutional Government and Democracy in India*, pp.311-344, Pearson Publications, Delhi.

Majumdar, K. (2018) “The Problem of Migrants in The Shadow Lines” *Muse India* Issue 80, Jul-Aug. ISSN:0975-1815.

Narayan Kar, R. (2019) “Sustainable Development and Multinational Enterprise Operations in Developing Countries: Role of Institutional Framework”. *Management and Economic Research Journal*. 5, S3. 1-11. DOI: 10.18639/MERJ.2019.738226.

Narayan Kar, R. (2018) “Understanding the Dynamics of M&As in Indian IT Sector: An Analysis of the Trends, Patterns, and Directions”. *Journal of Operations and Strategic Planning*, SAGE. 1(1), 1-20. DOI: 10., 1177/2516600X18774195

Narayan Kar, R. (2018)“ Understanding the Strategy of M&As in the Globalized Perspective: Experiences from Indian IT Industry”. In: Oberoi R., Halsall J. (eds) *Revisiting Globalization: International Perspectives on Social Policy, Administration, and Practice*. Springer, Cham DOI 10.1007/978-3-319- 79123- 4\_7

Sharma, A.K., Tiwari S., Jaggi, C.K., Yadavalli, V.S.S. (2018), "A Fuzzy EOQ Model for Non-instantaneous deteriorating items with Price Dependent Demand and Allowable Shortages under different Credit Terms – A New Approach" (under revision) in RAIRO. ISSN: 0399-0559.

Sing N. (2019) "Study of Relativistic excitation energies and transition data of X-ray and EUV transitions in Be-like ions". Journal of Electron Spectroscopy and Related Phenomena (Elsevier's journal) 53-72, 232.

Sami, S. (2019) "Determinants of China's Outward Foreign Direct Investment in Asia: A panel Data Analysis". Economic Political Studies. 7 (1) Routledge Taylor & Francis group.

Sikandar, A. "Need of Digital Work Culture in Indian Universities" in "University News". Journal of Higher Education, University News, Quarterly Journal, July 2018.

### **Journals**

Prof. Rabi Narayan Kar, Principal is a Guest Editor of Special issue of South Asian Survey, SAGE on "Creating a Zone of Growth: The BoBAS Rim Countries and SAARC". Volume 25 Issue 1-2 March, 2019.

Prof. Rabi Narayan Kar, Principal, Member of Editorial Advisory Board, Cambridge Scholars Publishing, UK.

Dr. Kusha Tiwari, Department of English, Member of Editorial Advisory Board, Cambridge Scholars Publishing, UK.

### **Research Projects**

Project entitled "Responsible Business Professionals in Finland and India Trade" in collaboration with three Finnish universities TUAS, XAMK and TU funded by CIMO, Finland.

Project entitled "Atomic Data for vapour shielding in fusion devices" of worth Twenty Thousand Euro from International Atomic Energy Agency (IAEA) in Vienna, Austria.

### **Seminars Organized**

The English Department organized its annual Departmental Seminar on 12 March, 2019 with the theme "Mapping Fantasies: Revisiting the FANTASTIC in Literary and Visual Narratives".

Department of Economics organized a seminar on "INVESTMENT PLANNING"

Department of Economics organized a Seminar on 8 of March on the Topic: "Role of Startup Ecosystem in Transforming Indian Economy". The Resource Person for the Seminar was Dr. Pushpender Kumar, Kirori Mal College, DU followed by a declamation competition.

Department of Political Science organized a seminar on "How to Prepare for IAS" in collaboration with the Dikshant Educational Centre, Mukherjee Nagar, Delhi which is mandated institution of the Ministry of Social Justice, Government of India on 26 March, 2018.

Ambedkar Study Circle organized a one day national seminar was organized on the topic "Dr. B.R.Ambedkar's views on Social Justice, Caste-based Discrimination and Bahujan Identity" on 23 October 2019.

Department of Physics organized one day seminar on "Fabrication of Semiconductor Devices" with eminent resource person, Dr. Manoj Khanna, Principal, Ramjas College, Delhi University.

IQAC in collaboration with NASSCOM foundation organized one day workshop on Whatsapp "Best practices against fake information". Nearly 100 students and staff members attended the workshop. NASSCOM Asst. Director Mr. Saurabh Madan encouraged students to join hands to help curb misinformation and also motivated students to register at [www.Mykartavya.nasscomfoundation.org](http://www.Mykartavya.nasscomfoundation.org).

E-Cell of the college organized one day seminar, 'Psycho of an Entrepreneur', on 24 September 2018, addressed by Psychologist and motivational speaker Mr. Gaurav Gill.

Skill Development Cell of the college organized one day seminar on “Opportunities in Financial Sector” on 29 March, 2019 in which Mr. Sanjeev Das, Senior Faculty, BSE Inst. Ltd. discussed various avenues in the Banking, Finance and Insurance sector.

### **Conferences Organized**

The Gandhi Study Circle, Department of Political Science and IQAC organized a Two-Day National Seminar on “Revisiting Gandhi through Modernity: Towards a Sustainable Future” on 27-28 September, 2018.

Department of Commerce and IQAC in collaboration with NIESBUD and Cluster Innovation Centre (CIC) University of Delhi held a two day National Conference and Young Entrepreneurs Convention on “Make in India: Towards growth and progress” on 24 -25 April 2019.

### **Seminar/Conference Presentations**

Subodh Kumar presented a paper entitled “On Repeated Burst Error Correcting Linear Codes in Blocks” in the International Conference IQRIT 2018, University of Delhi, on December 27-29 2018.

Jyoti Atri presented a paper entitled "Relevance of Gandhian Economics in Modern Times" in a seminar organised by Political Department of Shyam Lal College on Gandhi on October 27-28 2018.

Jyoti Atri presented a paper entitled "Privatisation of Higher Education in India and Emerging Issues" in an international conference organised by JDMC College on 3-4, February 2019

Kavita Arora presented a research paper entitled “A Study of Ownership Pattern and Performance of Mutual Fund Schemes in India” in National Seminar “Strategic Business Imperatives: Fostering Growth and Innovation” organized by Department of Commerce, Sri Aurobindo College on 18-19 January 2019.

Kavita Arora presented a research paper entitled “Inclusive Sustainable Development and Elderly Care: a Study of Inmates of Old Age Homes” in International Conference organized by Department of Commerce, Janki Devi Memorial College on 4-5 February, 2019. She received BEST PAPER AWARD for the same.

Kavita Arora presented research paper entitled “The Role of Microfinance in Sustainable Development” in International Conference on “Sustainable Development and the World Economy” organized by Department of Commerce, Janki Devi Memorial College on 4-5 February 2019.

Kavita Arora presented research paper entitled “A Study of Risk Adjusted performance of Mutual Fund Schemes in India” in International Conference organized by Department of Commerce, Janki Devi Memorial College on 4-5 February 2019.

Kavita Arora presented research paper in National Conference “Make in India: Towards Growth & Progress” organized by the Department of Commerce, SLC on 24-25 April 2019.

Simple Arora presented poster entitled "*Employee's Perception of Performance Management System's Effectiveness and Its Impact on Organisational Effectiveness.*," at 30th APS Annual Convention, in San Francisco, CA, USA, 24 - 27 May 2018.

Simple Arora presented paper entitled "Balanced Scorecard Adoption and Organisational Effectiveness: An exploration of PMS Effectiveness as a moderator" at International Conference on "Society and management - Indian culture vis-a-vis Western culture" held at IIM kozhikode, 7th- 8th December,2018.

Kusha Tiwari presented a paper entitled “Inhabiting perpetual liminal spaces: The case of *hijra* identity as institutionalized third gender in the Indian context” in the International Conference on *Thresholds in Literature and Arts* at University of Lisbon, Portugal in 6-8 June, 2018.

Kusha Tiwari presented a paper entitled “Un-mothering Disability: New Media Representations vs. Real Struggles” in the National Conference on *Disability, Gender and Violence: Issues and Challenges* organized by Center for Women Development Studies on 25-26 Feb, 2019.



Kusha Tiwari presented a paper entitled “The Changing Economy of Sexual Desire in Hindi Cinema” in *Women’s Conclave* organized by Department of International Relations and School of Women’s Studies, Jadavpur University, West Bengal on 6-7 March 2019.

Kusha Tiwari presented a paper entitled “The Desiring Female: Cinematic Interventions by Women Directors” in National Conference on *The Female Voice: The Gaze in the Indian Cinematic Imagination* organized by Department of English, Bharati College, University of Delhi on 4-5 April 2019.

Monika Khemani presented a paper entitled “Women Empowerment: A Sustainable Development Goal to foster Equality among Equals by demolishing Glass Ceiling” in National Seminar on “Women Empowerment: Perspectives on Gender Discrimination and Inclusive Policies with Special Reference to Higher Education” organised by Jamia Millia Islamia on 28-29 November 2018.

Monika Khemani presented a paper entitled “An Empirical Investigation of Work Life Balance Challenges of Employees: A Study with Reference to Multinational Corporations in NCR” in International Conference on “Emerging Challenges to Environmental and Occupational Health & Sustainability” organised by Jamia Millia Islamia on 17 -18 January 2019.

Neha Bothra presented a research paper entitled "Value Relevance of Intangibles: A need of recognition by Accounting Standards " at Delhi Technological University on 29-30 March 2019.

Kinshuk Majumdar presented a paper entitled “Travelling Real or Metaphor: A Study of The Shadow Lines” in a National Conference on “A Cultural Perspective: Journey of Narratives and Narrativization of Journeys” on 20th April 2018, organized by Department of English, Shyam Lal College, and CATA, Department of English, University of Delhi at SLC Seminar Hall.

Kinshuk Majumdar presented a paper entitled “The Suppression of the Marginalized: A Re-reading of The Hungry Tide” in the National Conference on (Re) Defining Marginalities on 16 March, 2019 in Zakir Hussain Delhi College (Evening)

Gayatri Chaturvedi presented paper entitled “Relevance of Gandhian Views on Environmental Sustainability”, in the National Symposium on ‘Revisiting Gandhism Through Modernity: Towards a Sustainable Future’, jointly organized by Gandhi Study Circle, Department of Political Science and IQAC, SLC, at Shyam Lal College, University of Delhi, 27-28 September, 2018.

Anita Sikander presented entitled “Role of of Digitalised Work Culture in Indian Universities” International Conference organized by the Department of Commerce, Maharaja Agrasen College (University of Delhi) on 21 April 2018.

#### **National/International MoUs Signed with Indian/Foreign Universities**

With Turku University of Applied Sciences, Finland for the International Project “Responsible Business Professionals for Finland and India Trade” under CIMO, Finland for the year 2016-18.

With Wadhvani Operating Foundation, Four main Street, Suite 120, Los Altos, CA 94022

With International Atomic Energy Agency (IAEA), Vienna, Austria for applied project on “Atomic Data for Vapour Shielding in Fusion Devices (F43024)”.

#### **With Indian/Foreign Companies/Industries**

MoU with Prowisdom Growth Pvt. Ltd., 5<sup>th</sup> floor, Ocus Technopolis Building, DLF Golf Course, Gurgaon-122002, Haryana

MoU with Amar Jyoti Charitable Trust, Karkardooma, Vikas Marg, Delhi – 110092

MoU with Green E-waste Recyclers Pvt. Ltd., 97 A, DDA Flats, Shastri Park, Delhi – 110053

MoU with Josh Technology Group, 861, Phase 5, Udyog Vihar, Gurgaon, Haryana, 122016

MoU with Jaagruti Waste Paper Recycling Services, F-3, Shopping Centre-I, Mansarovar Garden, New Delhi-110015 for Waste paper recycling.

MoU with TLM Community Hospital, Nand Nagri, Delhi – 110093 for Community Outreach Program's of TLM Community Hospital

MoU with Azure Solar Solutions Pvt. Ltd., Building No. 8, Ground Floor, LSC, Pushp Vihar, Madan Gir, New Delhi – 110062.

### **Other Inter-Institutional Collaboration**

AAMC and IQAC of SLC in collaboration with National Institute of Educational Planning and Administration (NIEPA) and Guru Angad Dev Teaching and Learning Centre (under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, Government of India) organized a Faculty Development Programme titled “Emerging Areas of Engagement in Pedagogy and Research” spanning from 24-30 November 2018.

Department of Physics, Chemistry and Mathematics along with IQAC of SLC in collaboration with CSIR-Institute of Genomics and Integrative Biology and UGC-HRDC Jamia Millia Islamia organized a Faculty Development Programme for Science faculties titled “Advancement in Integrated Sciences: Learning and Adaptation for effective teaching and research” spanning from 10-16 December 2018.

Department of Commerce and IQAC in collaboration with NIESBUD and Cluster Innovation Centre (CIC) University of Delhi held a two day National Conference and Young Entrepreneurs Convention on “Make in India: Towards growth and progress” on 24-25 April 2019.

### **Placement Details**

Number of students placed: 53

Number of Companies visited for campus recruitment: 6

### **Extension and Outreach Activities**

“YUVA SPANDANA: National Skill Development and Startup Fair” was organized by Skill Development Cell and E-Cell, SLC, on 7-8 February 2019. The NSS Unit organized One-Week Yoga Camp in collaboration with Sports Committee, CHD and NCC Unit of college on the occasion of International Yoga Day on 21 June 2018. It also organized a cleanliness drive on 23 July 2018. NSS unit along with teachers, non-teaching staff and students revived the compost pit of the college on 25 July 2018 and organized an anti polythene drive in Shahdara Mandi and free samples of fiber bags were distributed. Documentaries were screened on the themes of “Cleanliness”, “Plastic Hazards” and “Yamuna Pollution” on 30 July 2018 to sensitize youth about the protection of their own environment. In collaboration with National Medicos Organization (NMO), NSS Unit organized a Health Check-up Camp in Hanuman Seva Basti, Jhilmil on 9 April 2019 and Blood Donation Camp on 10 April 2019. NSS Unit submitted a Rolling Project “JAGRITI” based on Community Service with special focus on Cleanliness and Health issues to IQAC of the college. NSS team has taken up the initiative of educating the underprivileged children.

### **Library Development**

Total Books purchased: 576; Total Amount spend: Rs. 2,49,617/-; No. of Journals / Mag / Periodicals subscribed: 41

### **Faculty Strength**

Permanent - 63

Ad-hoc - 56

## **Financial Allocation and Utilization**

Grant sanctioned: Rs. 30,12,08,000/-

Grant utilized: Rs. 26,08,19,561/-

## **Other Significant Information**

Hon'ble Vice-President of India Sh. Venkaiah Naidu graced the 55<sup>th</sup> Annual Day & Prize Distribution Function of our College by his overwhelming presence as Chief Guest of the event. The statesmanship and speech of the Hon'ble Vice President spellbound the audience and especially inspired the students. SLC took a giant leap forward and secured the 41<sup>st</sup> rank in the NIRF College rankings this year. SLC has constructed overhead water tank of 50,000 Litres capacity. The College has also installed two elevators to make college building more accessible for PwD students.

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## **SHYAM LAL COLLEGE (EVENING)**

### **Major activities and achievements**

College published 'Aspirare', an International Journal of Commerce and Management (ISSN: 2394-0484 (Print), 2394-6601 (Online)), which has impact factor of 6.629. A two-day National Seminar on "Mahatma Gandhi in a Pristine Perspective: A Sesquicentennial Overview" was organized by the College.

### **Publications**

Haokip, N. (2018), "Empirical Analysis of Stock Market Volatility and Macroeconomic Volatility in India", International Journal of Management and Social Science Volume 6(11) November, ISSN 2321-1784

Haokip, N. (2018), "Interdependence of Stock Market and Domestic Macroeconomic factors in India", published in Review of Research Volume 8(2) November, ISSN 2249-894X, UGC Approved Journal No. 48514.

Kumar, R. (2018), "Gandhi Ke Gaon (Antim Jan – March 2019)", GSDS, New Delhi, International Journal 'The Discussant' Vol.-VI, No.4, Oct-Dec, ISSN No.2250-3412 published by Centre for Reforms, Development and Justice.

Kumar, R. (2018), "Lohia's Chaukhamba Raj and Good Governance: Relevance in Present-Day India", International Journal 'The Discussant'. VI (4) 4, Oct-Dec, ISSN No.2250-3412 published by Centre for Reforms, Development and Justice.

Ritesh, B. (2018), "Comparison of Government (Centre-State Relation) in Comparative Government and Politics", edited by Prof M. M. Semwal & Dr. Manish Kumar Mishra, Ankit Prakashan, pp. 165-191, ISBN 978-81-7988-186-6

Ritesh, B. (2018), "Comparison of Governance (Executive and Legislative Relation) in Comparative Government and Politics", edited by Prof M. M. Semwal & Dr. Manish Kumar Mishra, Ankit Prakashan, pp. 125-164, ISBN 978-81-7988-186-6

Ritesh, B. (2018), "Naukarshahi or Sushasan", *Indian Journal of Public Administration (IIPA)*, Lok Prakashan, Year 9, Vol. 2, Jul-Dec 2017, ISSN: 2249-2577, 2016, pp. 345-351.

Raghuvanshi, Roli, "Sanitation at the Forefront of National Consciousness – A Journey from Infamous Records to a Remarkable Success" in Vol.No.5, September 2018 issue of ASPIRARE –An International Journal of Commerce & Management.

Sharma, Kumar, S. (2018), "Reinventing CSR: Philanthropy to Companies Act" in Vol.No.5, September issue of ASPIRARE –An International Journal of Commerce & Management.

## **Journals**

‘Aspirare’, an International Journal of Commerce and Management (ISSN: 2394-0484 (Print), 2394-6601 (Online))

## **Seminars Organized**

Dr. A. P. Tripathi, organised an International Seminar on ‘The Power & Purpose of ACBSP USA Global Accreditation on 28 August 2018. Dr. Jeffrey Alderman, President / CEO, ACBSP, Kansas City, Kansas Chamber of Commerce delivered the key note address in the Seminar.

A two-day National Seminar on “Mahatma Gandhi in a Pristine Perspective: A Sesquicentennial Overview” was on 30-31 August 2018 with the financial support of Gandhi Smriti and Darshan Samiti(GSDS), Rajghat, Delhi, Khadi Village Industries Commission (KVIC), Rajghat, Delhi, Internal Quality Assurance cell (IQAC) of the college and Central Bank of India branch in the college premises.

## **Seminars / Conferences Presentation**

Anil Rai, presented a research paper entitled ‘Mahatma Gandhi in Pristine Perspective: A Sesquicentennial Overview’ in the National Seminar on 30-31 August 2018. He delivered a lecture as Guest Speaker in an International Seminar titled ‘Hindi Ki Kathetar Gadya Vidhayen’ in Mumbai organized by Bhartiya Hindi Parishad Prayagraj on 7-8 December 2018. He also presented a research paper in an International Seminar titled ‘Adhunik Bharat Mein Rashtravaad: Parikalpana Aur Chhunautiyan’ organized by SJNPG College, Lucknow on 21-22 December 2018. He delivered a lecture as Guest Speaker and presented a research paper also in the International Seminar organized by Nagpur University, Nagpur on 14-16 February 2019.

Ramesh Kumar, presented a paper on ‘Idea of India: A Rainbow Perspective’ in a two-day National Seminar on ‘Mahatma Gandhi in Pristine Perspective: A Sesquicentennial Overview’ on 30-31 August 2018. He also delivered an invited lecture in a workshop on Curriculum Designing for different courses in the Department of Sociology and Political Science on 26 March 2019 organized by Dyalbagh Educational Institute (Deemed to be University), Dyalbagh, Agra, Uttar Pradesh.

Manu Umesh, presented a paper on “Human Resource Accounting: A need for 21<sup>st</sup> Century” during 71<sup>st</sup> All India Commerce Conference held in Osmania University, Hyderabad from 20-22 December 2018.

A. P. Tripathi, Co-Chaired a Technical Session with Professor K.V. Bhanumurthy on ‘Sustainable Energy Management’ at ICSSR Sponsored XX Annual International Conference on Global Vision 2030 : Challenges & Opportunities on 4-5 January 2019 at DDU College, University of Delhi.

Sunita Saxena, presented a research paper titled “Social Media – Unnati Aur Avanti” in the two-day International Seminar organized by Maharaja Sayajirao University of Baroda, Vadodara held on 1-2 February 2019. She also presented a research paper titled “Laghu Katha – Bahuaayami Jeevan Ka Vistaar” in one-day Seminar organized by Miranda House College, University of Delhi on 7 February 2019.

Roli Raghuvanshi, co-Chaired a Technical Session 5E on ‘Research Paper Presentation on Contemporary Issues: Digital Marketing’ at ICSSR Sponsored XX Annual International Conference on Global Vision 2030: Challenges & Opportunities on 4-5 January 2019 at DDU College

Sanjeev Kumar Sharma, presented a paper on ‘Exploring Gandhian Concept for Good Governance’ in a two-day National Seminar on “Mahatma Gandhi in Pristine Perspective: A Sesquicentennial Overview” organized by Shyam Lal College (E).

Manoj Kumar, Assistant Professor, Department of Political Science presented a paper on “Swachhta Ke Bare Mein Kewal Gandhi Hi Humse Adhik Jaante Hain” in the two-day National Seminar on “Mahatma Gandhi in a Pristine Perspective: A Sesquicentennial Overview” organized by Shyam Lal College (E).

### **Placement Details**

Percentage of students placed: 68%

Number of companies visited for campus recruitment: 14

### **Library Development**

Our Library has a rich collection of over 50,049 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. Our library is automated and ensures the availability of current titles by consulting publishers', catalogue, book reviews and publisher websites. Open access facilities to students and staff are 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 new syllabi. The new arrivals are duly notified and prominently displayed.

### **Faculty Strength**

Permanent - 47

Ad-hoc - 27

### **Financial allocation and Utilization**

Grant sanctioned: Rs. 21,80,00,000/-

Grant utilized: Rs. 18,96,70,000/-

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## **SHYAMA PRASAD MUKHERJI COLLEGE FOR WOMEN**

### **Major Activities and Achievements**

SPM College had a very promising and engaging year in many aspects of collegiate life. The college has successfully completed NAAC accreditation process and got B certificate. Besides, B.A. Geography (Hons.) and three more Add-on Courses were introduced in this academic year. The institution has successfully initiated Office Automation. 2 teachers were awarded Doctor of Philosophy. In research and publication, our faculty members published 19 books, 14 book chapters and more than 30 research articles. More than 50 papers were presented at various seminars, workshops and conferences. It had organized 1 FDP and 2 Conferences, 4 Seminars and 1 Kavi Sammelan for blind poets. In the field of sport, our alumni Ms. Madhu won Silver Medal in Kabaddi at Asian Games 2018. The college also won Bharati Cup Kho-Kho Championship held at Bharti College and secured 1<sup>st</sup> Position in Inter College Yoga Championship held at Multipurpose Hall, University of Delhi.

### **Honors/Distinctions**

Dr. Pooja Vashisth received "Award for Best College Lecturer" for the year 2017-18 under the scheme of Government of NCT of Delhi.

Dr. Anju Jain received an award of Rs. 100000 from the Government of NCT of Delhi under the scheme "Award for College Teacher/Lecturer" in the year 2019.

Dr. Rishiraj Pathak was awarded 'Pandit Prataap Narayan Mishra Smriti Yuva Sahitya Sammaan 2018' for his book 'Aadyonmeshah' by Bhaurao Deoras Seva Nyas, Lucknow, Uttar Pradesh.

### **Students with Distinctions**

Ms. Meenakshi secured 3<sup>rd</sup> Position in B.El.Ed. 3<sup>rd</sup> Year Examination 2017-18.

Ms. Shuchitra Tuli secured 4<sup>th</sup> Position in B.El.Ed 3<sup>rd</sup> Year Examination 2017-18.

Ms. Pooja Yadav and Ms. Nitiksha secured 2<sup>nd</sup> Position and 3<sup>rd</sup> position respectively in Delhi State Yoga Championship held at Bal Bharati Public School, Pitam Pura, New Delhi.

Ms. Bhawana and Ms. Krishna secured 2<sup>nd</sup> and 3<sup>rd</sup> Position respectively in Karate at Delhi Olympic Games held in New Delhi.

Ms. Ruchi secured 2<sup>nd</sup> Position in Discuss Throw in the 78<sup>th</sup> Delhi State Annual Athletics Championships.

### **Publications**

Gupta, S. (2018). Socio-Emotional Learning: A Buddhist Perspective. In R. Sapra (Ed.), Reflections: Skills for Social and Emotional Well Being, Volume II. New Delhi, Delhi: Authors Press.180-194.

Gera, J., Kaur, H. (2018). A Novel Framework to Improve the Performance of Crowd Funding Platforms. ICT Express, Elsevier, 4 (2), 55-62.

Jain, A. (2018). Income Tax Law and Practice. New Delhi, Delhi: Pragati Publication.

Kapur, V., Ghose, S. (ed.). (2018). Dynamic Learning Spaces in Education. Singapore: Springer.

Kumar, N. N. (2018). Postmodern Dramatic Form and Suzan-Lori Parks's 365 Days 365 Plays. Apperception: Journal of the Department of English, Visva-Bharti, Santiniketan, Vol X, 54-64. ISSN 2321-1261.

Mirza, A. (ed.) (2018) Situating Global Politics. New Delhi, Delhi: VLMS.

Sharma, S., Aggarwal, M., & Sharma, D. (eds.) (2019). Food Frontiers. New Delhi, Delhi: New Delhi Publishers.

Thareja, R. (2018). Programming in C (As per the Latest AICTE Syllabus). New Delhi, Delhi: Oxford University Press.

Vats, U., Chahal, P. (2018). Humare Kanoon, Humare Adhikar. New Delhi, Delhi: JSR, Publishing House LLP.

Wadhwa, T. (2018). Heterogeneity and Dynamism in Indian Classrooms. In Kapur, V. and Ghose, S. (Eds.) 2018. Dynamic Learning Spaces in Education. Singapore: Springer. pp. 301-317. (ISBN: 978-981-10-8521-5).

### **Research project**

Dr. Sanjeev Kumar has completed a project on 'Status of Reservation Policy: A Study of Higher Educational Institutions in Bihar' funded by ICSSR for the period 2016-18. Total grant of Rs. 8,00,000/-.

### **Seminars organized**

Organised a two days national seminar on 'Sanskrit Vangmaya mein Shastriya Parampara evam lok Jivan' in collaboration with Rashtriya Sanskrit Sansthan (Deemed University), Delhi from 11-12 January 2019.

Organised a two days national seminar on 'Guru Ravidas, Saint Kabir and Dr. Ambedkar Ka Saamaajik, Saanskrtik Evam Saahityik Yogadaan' funded by Ministry of Social Justice and Empowerment, Government of India from 14-15 February 2019.

Organised a two days national seminar on "Formation and Usage of Technical Terminology in Higher Education" funded by CSTT, MHRD, Government of India from 29-30 October 2018.

The College IQAC organized a five days Faculty Development Programme on 'Effective Teaching and Learning Practices' from 22-26 November 2018.

Organised a National Seminar on “Cyber Security Systems” on 5 April 2019.

### **Conference organized**

Organised a Two Day International Conference on “Ram in Global Art, Culture and Literature” from 19-20 April 2018 sponsored by Ayodhya Shodh Sansthan, Ministry of Culture, Government of Uttar Pradesh.

The Department of Computer Science, SPMC organised an international conference on “Applications of Computing and Communication Technologies (ICACCT)”

### **Seminars and Conference Presentation**

Anita Gupta presented a paper titled -An Appraisal of Relationship between Customary Marriage Laws of Jat Communities with Contemporary Socio-Legal Issues, in the Haryana History Congress held at Starex University, Gurugram, 20-21 October 2018.

Anju Jain presented a paper on ‘India’s Act East Policy and Opportunities for Sustainable Trade of Micro, Small and Medium Enterprises of North Eastern Region of India’ in the Two-Day International Conference on “Sustainable Entrepreneurship Development” organized by Department of Commerce, Assam University from 29-30 November 2018.

Anuradha Singhal and Punam Bedi jointly presented a paper on ‘Blind Quantitative Steganalysis using SVD Features :2018’ at International Conference on Advances in Computing, Communications and Informatics (ICACCI), Bangalore, India, 19-22 September 2018.

Chetna Gupta presented a paper titled “Contemporary Relevance of The Ramayana: Perspective from Moral Values” in two days international conference on “Ram in Global Art, Culture and Literature”, organised by SPM College from 19-20 April 2018.

Nirmala Shah presented a paper titled The Colonial Policies and its Contestation: The Development of Higher Education in India 1900-1920, and Chaired a session at World Congress on Education held in Dublin, Ireland, from 15-18 July 2018.

Nita N Kumar presented a paper titled “Adrienne Kennedy’s The Funnyhouse of a Negro: Inhabiting the Divisions” at 5th International Conference on American Drama and Theater on “Migrations in American Drama and Theater, Universite de Lorraine, Nancy, France, 4-6 June 2018.

Ragini Kumari presented a paper titled ‘Sangeet sameeksha’ in an International seminar on “Traditional education in Music and career options” organised by Bhatkhande Music Institute Deemed to be University, Lucknow from 28-30 January 2019.

Rishiraj Pathak presented a paper titled ‘Agnimeeda Ityrichi Yajnyasheti Padashyaanvayavimarshah’ in the international conference on ‘Modern Education and the Vedas’ organized by PGDAV College (Evening), University of Delhi from 27-28 October 2018.

Urmil Vats presented a paper titled ‘Pollution: Threat to Human Health’ in the International Conference on Innovations in Chemical, Biological & Environmental Science held at Arya Post Graduate College, Panipat, Haryana from 27-28 February 2019.

Veena Kapur presented a paper titled ‘Teacher Education in India- Aligning with Contemporary Needs and Trends’ at the ERAS-APERA International Conference held at National Institute of Education, Singapore from 12-14 November 2018

### **National MOU Signed**

An MOU was signed with Sustainable Initiatives to work in the area of E-waste and Environment Education and Awareness Related Projects.

An MOU was signed with Ekal Sansthan, New Delhi for collaborating and organizing socially useful events including orientation session and IB Bridge Programme.

AN MOU was signed with YUVA & Seva Foundation, Delhi for organizing programs, events and tours for cultural exchange programmes with North Eastern States.

### **Extensions and Outreach Activities**

A Cancer Awareness programme was organized by NSS unit of SPMC in collaboration with Bal Ashray Ashram, Delhi in 2018.

Beyond the Classroom: conducted by NSS Unit of SPMC (W) with Department of Education

Blood Donation Drive was organized by ECO Club and NSS Unit of SPMC (W) in collaboration with Red Cross Society in 2018.

NSS SPM Unit organised a donation drive in collaboration with Society for Attaining Vibrant Earth for collecting relief material for flood affected victims of Kerala from 20-24 August 2018.

### **Library Development**

The institution allocated Rs. 516,425/- for maintenance and development of library. Library collection was upgraded to 78,880 by addition of 1630 books, 35 journals and 50 magazines.

### **Faculty Strength**

Permanent - 84

Adhoc - 77

### **Financial Allocation and Utilization**

Grant sanctioned Rs. 30,18,04,000/-

Grant utilized Rs. 30,18,04,000/-

### **Other Significant Information**

A Kavi Sammelan for Visually Impaired Poets was organized on International Braille Day, 4 January 2019. Ten days workshop on "Data Analytics with Python" was conducted from 2-13 July 2018 in collaboration with Antrix Academy. A street play on the theme 'Youth for Sustainable Development' was presented in various colleges- LSR, Gargi. The play 'Molki', written by Naresh Kaushik & directed by Sandeep Rawat from 'Smarth Theatre Group' was presented at many places.

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## **SRI AUROBINDO COLLEGE**

### **Major Activities and Achievements**

Besides academics, the various departments in the college organized their annual one/two days activity programme open for students of the college and also students from other colleges of University of Delhi. The literary society of the college organized workshops and competitions for the students, like-wise the other societies such as Aakaraya(Commerce), E'lectronique'(Electronics), Phoenix-Pro(English) have been active throughout the year. The College has also Nine Cultural societies exhibiting student's talent in Art, Music, Dance, Painting and Photography. The college organized its three day Annual Cultural Festival Mehak-2018-19 in March, 2019. Programme such as Swatch Bharat Abhiyan, Save Environment, and Blood donation camps, Swatch Bharat Internship are encouraged throughout.



### **Honours/Distinctions**

Dr. Manju M Gupta, Associate Professor, Botany, held the position of Vice President at International Symbiosis Society(2018-2021)

Dr. Vandana Bhalla, Associate Professor, Electronics, was awarded Ph.D degree from IIT Delhi.

Ms. Rishika Nayyar, Assistant Professor, was awarded WAIB (Women in the Academy of International Business) Helping Hands Scholarship.

### **Students with Distinctions**

Aditya Raj Gautam, B.A. Programme 3<sup>rd</sup> Year won 1<sup>st</sup> position in Javelin and Shot-put and second position in Discus throw in Para-Athletics National Championship(9/10 March, 2019, Patna). He qualified for Para-Athletics world Championship to be held in November, 2019 at Dubai.

Ashish Nagar, B.A. Programme 1<sup>st</sup> Year was selected for Pro-Kabbadi as a member of UP Yoddha team (2019).

Hitesh Garg, student President of our Western Music Society (Allegro) won the best Guitarist award at JECRC Foundation, Jaipur.

Anjali Negi won the Best Actress Jury award at Sahitya Kala Parishad for the play “Zuban Sambhal Ke”

Our academic achievers are Annu Kumari(B.Sc. Physical Science, 3<sup>rd</sup> Year), Rachit Harjai (B.Sc. Life Science, 3<sup>rd</sup> Year), Shikha Aggarwal(B.Sc. Physical Science, 3<sup>rd</sup> Year), Mohit Chawla (B.Com. Programme, 3<sup>rd</sup> Year) and Dimple Garg (B.Com. Hons, 3<sup>rd</sup> Year).

### **Publications**

Gupta, M. M. (2019) Diversity of Arbuscular Mycorrhizal Fungi in Relation to Sustainable Plant Production Systems. In: Microbial Diversity in Ecosystem Sustainability and Biotechnological Applications – Volume 1.(Ed.T. Satyanarayana, S.K. Das and B.N. Johri) Springer Nature Singapore (in press).

Jain, P. (2019) Prediction of band-head spin of triaxial super-deformed bands using the modified VMI model, in The European Physical Journal 134, 72 DOI 10.1140/epjp/i2019-12443-3.

Kumar, A. (2019) “Low Profile Coupling Feed Circularly Polarized Antennas for WLAN Applications”, International Journal of RF and Microwave Computer-Aided Engineering, <https://doi.org/10.1002/mmce.21525>, vol.29 (2).

Kumar, A. (2018) ‘Radiation hardness investigation of thin and low resistivity bulk Si detectors’, Published in Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment. <https://doi.org/10.1016/j.nima.09.108>.

Rishika N. (2018) Presented a paper titled “India’s Foreign Acquisitions in Advanced Economies: The Role of Sub-National Institutional Development” at the Academy of International Business (leading association of international business scholars and specialists), Annual Meeting held in June 2018 in Minneapolis, USA.

### **Journals Published by College**

Aurobindo College Journal of Research and Studies, ISSN 2455-5401

**Number of College teachers serving as Editor(s)/Members(s) of Editorial Board:** Four

### **Research Projects**

Dr. Ashwani Kumar, Department of Electronics, got registered two Ph.D. students under him. He is actively engaged in research with USA and Australian Groups.

Ms. Shasta Gupta, Assistant Professor, Department of Commerce, secured admission in Ph.D. in the area of Corporate Governance, OBD at Department of Commerce, Delhi School of Economics.

### **Seminars Organised**

ICSSR Sponsored two-day National Seminar on “Reforms for Transforming India: A Road Ahead” organized by the Departments of Commerce and Economics on 17-18 February 2017.

ICSSR Sponsored National Seminar on “Affirmative Actions in Theory and Practice: Achievements and Challenges” held on 6-7 January 2017.

A two-day National Seminar on “Recent Innovations in Chemical Sciences and Environment Technology” organised on 3-4 March 2017 sponsored by UGC and supported by DRDO, ONGC and SERB (DST).

### **Seminar/ Conference Organized**

Department of Chemistry organized a two-day national seminar on “Technology for environmental Sustainability, Socio-Economic Responsibility and Associated Entrepreneurial Opportunities in 21<sup>st</sup> Century” was organised on 8-9 March 2019, sponsored by ICSSR and SERB, DST. The event was graced by Prof. Amita Singh, JNU, Prof DS Rawat, Dr. Pravin Ingole, IIT Delhi, Prof. B.S. Kaith, NIT Jalandhar and others.

Department of Commerce organized a two-day national seminar on “Strategic Business Imperatives: Fostering Growth and Innovation” was conducted on 18-19 January 2019.

### **Workshop Organized**

Department of Electronics organized a three-day workshop on ‘Web Development’ was organised from 2-4 January, 2019 in association with ISCLOnline. The workshop was inaugurated by Chief Guest, Prof. T. V. Vijay Kumar, Department of Computer and Systems, JNU. Mr. Isrg Rajan, Director of ISCL Online with his five-member team, conducted a workshop for seven hours every day in which he guided students on how to design their own live website.

Ms RachnaYadav, a renowned Kathak artist and the Managing director of Hindi literary magazine *Hans*, conducted a workshop on 2 November 2018 to introduce students to the art of storytelling through traditional dance forms and also touched upon the performative aspects of literary adaptations.

### **Seminar/Conference Presentations**

Aprajita Chauhan presented a paper entitled “Water Hyacinth as Potential feedstock for bioethanol production”, at the 9<sup>th</sup> Annual Congress and Expo on Biofuels and Bioenergy . Dubai, UAE. April 16-17, 2018.

Manju M Gupta presented a paper entitled “Human interventions adversely affect the biodiversity of arbuscular mycorrhizal fungi in ancient Aravalli ranges” at ISS 9 Oregon State University (USA) in July 2018.

Ashwani Kumar presented a paper entitled “A Robust and Systematic Approach to Multiband Antenna Design for Operation on Complex Platforms under Geometry Modification”, 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting 8-13 July 2018 Boston, Massachusetts, USA.

Ajay Kumar won “Best Oral Presentation” award on Research paper “Interfacing & automation of the multi-strip Si Sensor characterization setup at the University of Delhi” at Advanced Materials and Devices for Futuristic Applications (AMDFA-2018), 19-20 May 2018, Chandigarh University, Mohali, Punjab (INDIA).

Shruti Garg presented a paper entitled "Good policies transcendental to Good Economics and Good governance" in International Conference on "Kautilya and contemporary world- economy, strategy, governance" at CPDHE, DU on 17th March, 2019.

Rishika Nayyar, presented a paper titled "India's Foreign Acquisitions in Advanced Economies: The Role of Sub-National Institutional Development" at the Academy of International Business (leading association of international business scholars and specialists), Annual Meeting held in June 2018 in Minneapolis, USA.

Narpat Raj Nenival, presented a paper entitled "Skill development to build a Clean India" in National Seminar held at Deshbandhu College, University of Delhi, Kalkaji, New Delhi (From 7-8 June, 2018).

#### **Placement Details:**

Number of students placed - approximately 20

Number of Companies visited for campus recruitment - approximately 6

#### **Extension and Outreach Activities**

College has an Entrepreneurship-Cell (E-CELL), which initiated "E-CELL CAMPUS AMBASSADOR PROGRAMME" which was open to all the Universities Across India and recruited 600+ Ambassadors for a fixed tenure.

#### **Library Development**

A total of 59785 books, 10 journals (Print + Online) and 20 magazines, 16 Newspapers have been subscribed for users along with Web OPAC facility, EDDS, CAS, Book Bank, Braille Laptop cum text scanner, E- Library section and Daisy players for users.

#### **Faculty Strength**

Total sanctioned faculty: 130

#### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 3094 lakhs

Grant utilized: Rs. 3094 lakhs

#### **Other Significant Information**

Ms. Rishika Nayyar, was awarded prestigious Alan Rugman Scholarship by Henley Business School, for attending the Ph.D. Master classes held during 5-9 November 2018 at Henley Business School, University of Reading, United Kingdom. **Crunk, our Western Dance Society, has won 56 prizes in the year 2018-19 which includes first position secured at IIT Delhi, St. Stephens College, Miranda House, Hansraj, Janki Devi, Satyawati Ramanujan College, Kalindi, Shivaji, Moti Lal Nehru, Mata Sundari, Ambedkar University, Galgotia University, NSUT, University College of Medical Sciences.**

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### **SRI AUROBINDO COLLEGE (EVENING)**

#### **Major Activities and Achievements**

This academic year saw several new initiatives on the part of the faculty and students, under the aegis of the Principal, Dr. Namita Rajput. The college initiated several new societies and committees for the development and growth of the institution as well as the student body. The college has achieved great heights in extra-curricular activities. Several new societies such as the fashion society, 'Dynamics', the Arts and Crafts Societies, 'Imaginique', Nukkad Natak Society, 'Rangmanch' etc has been formed. The college

has also launched Newsletters, as part of different departments, such as 'Commfeed', 'The Finvest Herald', 'The Perks InVision', 'Winsome Wednesday', and several others, under the mentorship and guidance of Dr. Rajput and other faculty members. The college has signed an MoU with the Centre of Economic Growth and Research (CEGR).

### **Honours/ Distinctions**

Dr. Namita Rajput, Principal, (OSD) received various awards including Girl Centric Tertiary Education and Training Award- Women's Agency for Generating Employment, Best Women ICONIC Award - The Earth Saviours Foundation, Dr. Sarvepalli Radhakrishnan Life Time Achievement National Award, IRDP Group of Journals, Lifetime Achievement Award - The Education Standards and Testing Council of India, Lifetime Achievement Award Confederation of Indian University, Lifetime Achievement Award- National Institute of Cleanliness, Education and Research and many more.

### **Students with Distinctions**

Anwasha Sanyal, B.A. Applied Psychology (Hons.) IIIrd Year, 8.75 CGPA

Joshua Solomon, B.A. Applied Psychology (Hons.) IIIrd Year, 8.75 CGPA

Pooja Bista, B.A. Applied Psychology (Hons.) IIIrd Year, 8.63 CGPA

Snigdha Datta, B.A. Applied Psychology (Hons.) IIIrd Year, 8.63 CGPA

Shanti Kumari, B.Com (Hons.) IInd Year, 8.54 CGPA

### **Publications**

Goswami, R. (2018). Spirituality in the Writings of Kamala Das: A Vedantic Interpretation. *Journal of Emerging Technologies and Innovative Research*, 5(8).

Rajan, R. (2018). Hindustani Shastriya Sangeet ki Atulaniya Sankalpana- Raag. *Sangitika, Kriti- 5, Geetam-1*, October 2018 issue, 15-19.

Rajput, N. (2018). Price discovery and Volatility Spillovers: Evidence from Non-agricultural Commodity Market in India. *The IUP Journal of Financial Risk Management*, 15(3), 1-25.

Rajput, N. (2018). Volatility Spillover between Spot and Futures Market of Highly Traded Commodities in India: DCC-GARCH Approach. *Australian Journal of Business and Management Research*, 5(9), 25-40.

Rath, S.K. (2018). *The Secret History of Mumbai Terror Attacks* (second edition). London, London: Routledge Publication.

Rath, S.K. (2019). *The Great Game is Back*. Fountain Ink (India), 8(5).

Singh, A. (2018). Emerging Trends in the Structure of Urbanisation in India. *Journal of Global Information and Business Strategy*, 10(1).

Singh, S. (2018). *Road Rage: A Psychosocial Perspective*. Gyan Garima.

Verma, S. (2018). *Fundamentals of International Business*. Noida, UP: Dorling Kindersley (India) Pvt Ltd, Pearson Education.

Verma, S. (2018). Community Radio in Gurugram: A Case Study in Social Entrepreneurship. *International Journal of Management Research*, 9, No. 1-2, December 2018

### **Research projects**

Dr. Saroj Kumar Rath, Principal Investigator of the project titled "International Terrorism" funded by Hosei University, Tokyo, Japan with the sanctioned amount of Rs 16,00,000 for a period of 2017-20

Dr. Saroj Kumar Rath, Principal Investigator of the project titled “ Indian Foreign Policy” funded by Ministry of External Affairs, Government of India, with the sanctioned amount of Rs 5,00,000 for a period of 2018-20

Dr. Saroj Kumar Rath, Co-Principal Investigator of the project titled “Integration of North East and Jammu and Kashmir” funded by Indian Council for Social Science Research, New Delhi, with the sanctioned amount of Rs 15,20,000 for a period of 2017-19

Dr. Saroj Kumar Rath, Principal Investigator of the project titled “Sardar Patel: Integration of India” funded by Confluence Media, New Delhi, with the sanctioned amount of Rs 5,00,000 for a period of 2018-20

Ms Leena, Co-Principal Investigator of the project titled “India-Afghanistan Relations: An Assessment of India’s Economic Aid to Afghanistan” with the sanctioned amount of Rs 5,00,000 for a period of 2018-20

### **Seminars organized**

PERSEVERE- an interactive session on communication skills was organized in association with the Career and Guidance cell on 3 October 2018. The guest speaker was Mayank Sharma. The seminar was extremely successful in terms of the student outcome and their step towards a better future.

The Placement cell in partnership with the Career and Guidance Cell organized the seminar on ‘How do I plan my career?’ on 15 January, 2019 in the college premises. The guest and speaker for the day was Tanmaya Goswami, CEO of Ace Solutions, who enlightened students to get on the path to success through guidance provision and mentoring.

Career and Guidance Cell in association with the Placement Cell of the college organized “FINANCE MAKES FORTUNE”: an open seminar on Finance and Investment! The special guests and speakers for the day were Mr. Jasjit Bhatia & Mr. Nitin Malhotra who guided the way into the financial sphere!

Seminar on "Rejuvenate your resume, reap the rewards" and “How to face Interviews” An interactive session took place on 26 March 2019. The event "Escalate to Resume " is organised by career and guidance cell along with placement internship and training cell.

Career & Guidance Cell organized professional seminar “Persevere: A Productive hour” on communication skills, Group Discussions, Motivation, Personality Development and Corporate Skill Building for its students On 3 October 2018

### **Conferences organized**

The XX Annual International Conference was organized from 4-5 January 2019 at Deen Dayal Upadhyay College, University of Delhi under the joint auspices of Delhi School of Professional Studies & Research; Indian economic Association, Deen Dayal Upadhyay College, Shyam Lal College(E), Sri Aurobindo College (E), Indian Commerce Association Delhi- NCR Chapter, Rotary Club of Delhi Maurya; and Divine International group of institutions Gwalior. The broad theme of Conference was “GLOBAL VISION 2030: CHALLENGES & OPPORTUNITIES”.

### **Seminar/Conference Presentations**

Namita Rajput, Principal OSD, “Empirical Researches in the Field of Human Resource Development” at 71 All India Commerce Conference held at Osmania University in the year 2018.

Mahesh Darolia, Volunteerism in Rural India: Exploring and Structuring Best Practices in International Congress of Applied Psychology, Montreal, Canada on 24-30 June 2018.

Pragyendu, Exploring Psycho-Social Determinants of Volunteerism in Everyday Life in International Congress of Applied Psychology, Montreal, Canada on 24-30 June 2018.

RajniKant Goswami, Spirituality in the Writings of Kamala Das: A Vedantic Interpretation in International Conference on Research Trends in Engineering, Applied Science and Management -2018 held at Osmania University Hyderabad on 05 August 2018.

Sumati Verma, What Drives Indian FDI to Africa”, with Ankur Bhatnagar and Swarup Santra, at the 6<sup>th</sup> National Conference on Business and Management, Shaheed Bhagat Singh College, University of Delhi, 24 – 25 February 2019 and “How Indian MNEs choose their FDI destinations: Extending traditional theoretical frameworks”, with Rishika Nayyar and Jaideep Mukherjee, at the 6th IIFT Conference on Empirical Issues in International Trade & Finance, 13-14 December 2018, New Delhi.

### **National International MoUs signed**

MoU signed with Centre of Economic Growth and Research (CEGR)

### **Placement Details**

Number and percentage of Students Placed: 6 (2.21%)

Number of Companies Visited: 8

### **Extension and outreach activities**

Participatory Rural Appraisal Study at Jaisalmer, Rajasthan. 65 Students and 6 teachers visited at Udaipur, Rajasthan during 1-5 March 2019 to understand various rural psycho-social issues using Participatory Rural Appraisal Methodology. This PRA Study was carried out in two different phases i.e. feasibility phase and action oriented phase. Study was conducted at Palodra Village of Udaipur District, Rajasthan. Briefly, following activities were carried out under PRA Study: Rural community members were interviewed using different techniques of PRA. Burning psycho-social issues were explored such as poverty, unemployment, female infanticide, gender inequality, poverty and dehumanization, intergroup conflict, caste discrimination etc. In second phase of the study, students conducted Street plays and Group discussions using posters on various social and psychological issues in rural communities. Slogans circulated and cited on walls of houses and institutions at the village.

### **Library Development**

The library is well-equipped with more than 40,000 volumes of books (including General books, SAF, Book Bank and Gifted books) from nearly all relevant subjects and all ICT facilities. Apart from the catering of the books, related to the course requirement, Library has a rich collection of Reference Sources which include Encyclopedias, Classic collection of Literature, Specific collections on Sri Aurobindo and Mahatma Gandhi, Hand Books, and Dictionaries on different subjects for enriching the library collections. Library with all its sections are computerized and it works on R.D. System of Library Management. Library subscribing numbers of printed National and International journals, magazines and newspapers. The Library also provides the access facility of E- Journals through the Delhi University Library site within the campus. The Library staff helps and encourages the students to become skilled and responsible users.

Gyan Sangam Book Fair cum Exhibition was organized within the College Library from 23-24 August 2018 with an objective to enhance collection of books in the Library. 15 renowned Book Publishers and Book Vendors participated in the event.

### **Faculty Strength**

Total sanctioned faculty: 73

### **Financial Allocation and Utilization**

Grant sanctioned - Rs. 210656000/-

Grant utilized - Rs. 226641000/-

### **Other Significant information**

The College Participated in NIRF Ranking and rated in top 150 institutions in overall rank.

The College was awarded B+ grade by NAA

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## **SRI GURU GOBIND SINGH COLLEGE OF COMMERCE**

### **Major Activities and Achievements**

4<sup>th</sup> Biennial Convention, *Vimarsh'19* on 'Transforming India's Business Landscape: Role of Disruptive Innovation and Entrepreneurship' was organized on 26 February 2019. The convention was organized in association with the Department of Commerce, Delhi School of Economics and knowledge partner, PHD Chamber of Commerce and Industry. Dr. Pranab Mukherjee, Former President of India was the Chief Guest on the occasion. The BSE-Centre of Excellence has been set up in order to encourage quality of research in the college. The SGGSCC centre for Professional Development has been set up to provide hands-on training options to young students to make them market ready. The centre organized six add on courses in the field of taxation, capital market and data analysis in the academic year 2018-19 in association with ICAI and BSE. For making use of the non-conventional sources of energy, establishment of number of high quality solar panels and wind panels for clean energy have been installed on the hostel terrace. Construction of rain water harvesting system in the college has been completed.

### **Students with Distinctions**

Divya Kaushik, holds total ten world records and five national records in the field of Mathematics. The nine World Records included in the Limca Book of Records are for computing- 120 digit table in 21 minutes and 40 seconds, 50 sums of 9 digit cube roots, 30 sums of 12 digit cube roots, 4 sums of 8 digit squares and 2 sums of 15 digit X 15 digit respectively in 5 minutes, etc. She has recently acquired the tenth world record i.e. the Guinness World Records Title for 'Longest Consecutive Multiplication in thirty minutes' in March, 2019.

Akshay Chopra, a final year student of B.Com. has consistently performed well in academics and topped in the second year scoring a CGPA of 9.18. He interned with and has now been successfully placed at IND Wealth, Gurgaon.

Meharwan Singh, a final year student of B.A. (Hons.) Economics has acted as Head of Operations, Net Impact, Delhi (HQ: San Francisco) and organized events including Plantation Drives, Net Impact Local, etc. .

Urvi Midha, a final year student of B.A. (Hons.) Business Economics secured first position in both second and first years of graduation securing CGPAs of 8.45 and 8.68 respectively.

Aaditya Chauhan, a first-year student of B.Com. has won silver medal in All India University Shooting Championship, 2018 held in Chandigarh and a silver medal in Inter-University Championship, 2018. He has also won bronze medal in CBSE Cluster (shooting).

### **Publications**

Anjala, K., Kaur, J. (2018). "Financial Liberalization and the Banking Crisis: A Study of ASEAN Nations" in *Effulgence*, Vol. 16, No.-2, July - December, 2018, ISSN (O) : 2456-6675, ISSN (P) : 0972-8058.

Gupta, R., Murthy, K.V.B. (2018). Banking Reforms, Financial Recession and Competition: Locating Turning Point in NPAs Trends in Indian Banking Segments. *Aayam*, 8(1)(pp1-10). ISSN: 2231-4326.

Kawal, G (2018). "Does economic Liberty lead to happiness: A Comparative Analysis", online *International Interdisciplinary Research Journal*, {Bi-Monthly}, ISSN 2249-9598, Volume-08, July 2018 Special Issue (01), impact factor 5.818.

Kaur, H., Kaur, U. (2018). "Governmental Initiative of DigiLocker: An Empirical study with respect to Undergraduate College Students" International Journal of Research in Engineering, IT and Social Science, ISSN 2250-0588, Vol-9, March 2019, pg 135-141, Impact Factor(SJIF) – 2018

Kaur, G. (2018). "The Evolution of Peacekeeping and Indian Peace keepers: Challenges and Achievements" Journal of Peace Studies, Vol.25, Issue 1&2. January-June 2018 ISSN 0972-5563.

Kaur, S. (2018). "Challenges in Teaching and Learning for Visually Impaired" International Journal of Engineering Science Invention (IJESI): ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726, 7(6), Page No. 57-59, June 2018.

Malhotra, R., Khanna, M. (2018). "An Empirical Study to Evaluate the Relationship of Object-Oriented Metrics and Change Proneness" International Arab Journal of Information Technology, vol. 15, no. 6, pp. 1016-1023, ISSN: 1683-3198, November 2018.

Malhotra, R., Khanna, M. (2018). Threats to validity in search-based predictive modelling for software engineering. IET Software, 12(4), 293–305. doi:10.1049/iet-sen.2018.5143

Singh, Bir J, Sangeeta D (2018) "Contemporary Reforms in economy and Business", Misha Books. ISBN: 978-81-937251-3-9, 2018

Singh, Bir J, Sangeeta D (2018) "Recent reforms in Marketing and Management" Misha Books, ISBN 978-81-937251- 5-3, 2018.

### **Journals**

'*Journal of Business Thought*' is published annually by the college. It seeks to provide a platform that encourages research scholars and academicians to share contemporary thoughts in related fields of business and economics. The Journal is fully refereed and is in the UGC approved list of Journals (Journal no 64092). Seven Faculty members are serving as members of Editorial Board.

### **Seminars Organized**

Lecture on "Decoding Stock Market" was organized in August 2018.

The Department of Business Economics and Management Studies organised an International Seminar in August 2018 on "The Power and Purpose of ACBSP" (Accreditation Council for Business Schools and Programs) USA Global Accreditation organized by the Indian Commerce Association – Delhi NCR Chapter in association with SGGSCC, Delhi School of Professional Studies and Research, GGSIP University, Shyam Lal College (Eve.), and Shaheed Bhagat Singh College (Eve.), Delhi University with its focus on why International Accreditation especially for Business Schools is of immense importance.

Seminar on 'Digital Marketing Strategy- Importance of Before and After' was held in January, 2019, by Dr. Jamie Bailey, University of Wollongong, Australia.

An interactive seminar on "Text Mining, Textual Analysis and Assessment of Risk" was organized In March 2019.

A seminar for the PG students of PGDIM and DBJCC on 'Digital Marketing' was held in October, 2018.

### **Conferences Organized**

4<sup>th</sup> Biennial Convention, Vimarsh'19 on 'Transforming India's Business Landscape: Role of Disruptive Innovation and Entrepreneurship' was organized on 26 February 2019. The convention was organized in association with the Department of Commerce, Delhi School of Economics and knowledge partner, PHD Chamber of Commerce and Industry.

Vision Unplugged' 18, a startup meet was organized on 26 October 2018



Achievers' Talk 5.0, one-day flagship event was organized on 20 February, 2019, wherein achievers included Mr. Hardeep Singh Puri, Union Minister of State, Dr. Rajagopala Chidambaram, known for his role in Nuclear Weapons Programme, Mr. Sanjay Sethi, Founder and CEO, ShopClues, Ms. Preet Dhupar, CFO, IKEA, Mr. Tatva K, popular DJ & RJ and many more.

Conference on 'Digital Marketing Strategy- Importance of Before and After' in January, 2019, by Dr. Jamie Bailey, University of Wollongong, Australia.

#### **Seminar /Conference Presentations**

Renu Gupta, presented a paper entitled 'Relationship of Spiritual Intelligence, Teaching Effectiveness and Personal Well Being and their Impact on Satisfaction Level of Students at Post-Secondary Level' in XX International Conference organized by DSPSR, DDU College, Shyam Lal College and Aurbindo College.

Meenu Gupta, presented a paper entitled 'Relationship of Spiritual Intelligence, Teaching Effectiveness, Personal Well-Being and their impact on Satisfaction Level of Students at Post-Secondary Level'.

Tarvinder Kaur, Inaugural Speech at the award function of *Sache Patshah* – a religious monthly magazine at Russian Centre of Science and Culture, Delhi. She presented a paper titled 'Soochna Kranti de Yug vich Punjab Sabhiyachar da Badalda Muhandra: Kirsani Samaj de Vishesh Sandarbh Vich' in the first International Seminar held at Mata Sundri College for Women.

Gurdeep Kaur presented a paper entitled 'Promoting Women Entrepreneurship in the Agriculture Sector of India: Rationale and Challenges' in the first International Seminar held at Mata Sundri College of Women.

Neha Goyal, presented a poster entitled/ 'Stage-based Trait Identification by Placing Model Systems on the Unified Framework for Biological Invasions' at NEOBIOTA 2018, 10<sup>th</sup> International Conference on Biological Invasions: New Directions in Invasion Biology, Dun Laoghaire, Ireland. She also participated in 11<sup>th</sup> Annual The Cytometry Society Conference and Workshops, Flow Cytometry: Multi-dimensional and Multi-faceted, hosted by All India Institute of Medical Sciences, Delhi. She was invited for a lecture on 'World Sparrow Day' by National Animal Welfare Board, MoEFCC.

Harpreet Kaur, presented an article entitled 'A Storm of Climate Change Migration is Brewing in South Asia' jointly with Prof. Simrit Kaur in East Asia Forum at the Australian National University.

Aradhana Nanda, presented a paper entitled 'The Close Linkages between Sustainable Development and the Old Population' at VIIth Annual International Conference on Sustainability organized by IIM, Shillong.

Kajleen Kaur, presented a paper entitled 'Monetary Policy Transmission Mechanism in India' at the Conference on 'New Direction in Economic Theory' held at IIM Calcutta. She presented a paper on 'Monetary Policy during Crisis' at the 'Conference on Empirical Issues in International Trade and Finance' held at IIFT, Delhi. She also presented a paper on 'Monetary Policy Impact on Inflation' at the 'International Conference on Global Vision', ICSSR.

Megha Unmat presented a paper entitled 'On the Applicability of Search-based Algorithms for Software Change Prediction' in 'International Conference on Recent Trends in Engineering, Technology and Business Management'.

#### **National /International MOU s Signed**

Cape Breton University, Sydney, Nova Scotia, Canada

Northern India Regional Council of ICAI

Ureka Education Group, Oxford Science Park, John Eccles House, Oxford, UK

Alfred University, New York, USA

Dominican College, New York, USA

## **Inter Institutional Collaborations**

**Academics:** Jawaharlal Nehru University, Department of Economics, University of Delhi, University of Bath, UK, Niti Aayog, Delhi Technological University, Indira Gandhi Delhi Technical University for Women, Department of Commerce, Delhi School of Economics, University of Delhi, School of Business, University of Kansas, USA, Jagan Institute of Management Studies, Rohini, Sydney Business School, University of Wollongong, Australia, Guru Gobind Singh Indraprastha University, Institute of Chartered Accountants of India, Bombay Stock Exchange Institute Limited, Delhi School of Business, VIPS, Indraprastha College for Women, University of Delhi, K.R. Mangalam University

**Corporate:** Innolabz Ventures, India Financial Services, ShopClues, World Bank, KVCH, The United Service Institution of India, Coding Ninjas, Weekendr, BlockSpace, Lenskart, PHD Chamber of Commerce and Industry, KPMG, Deloitte, PricewaterhouseCoopers

**Social:** Gurudwara Nanak Darbar's Old Age Home, Cancer Aid Society, Noida Deaf Society, Delhi Traffic Police, Akash, Rotaract Club of Delhi, Kailash Satyarthi Children's Foundation, Goonj, Roko Cancer, Yamuna Biodiversity Park, E-Waste Recyclers India, National Animal Welfare Board, Ministry of Environment, Forest and Climate Change, AAS Foundation

## **Placement Details**

Number of students placed (on campus): 207

Number of students placed (off campus) : 26

## **Extension and Outreach Activities**

The members of the Dreaming Tibet Society had an enriching experience as volunteers at the teachings of His Holiness the Dalai Lama at Bodhgaya. They also participated in the 'The Cancer Awareness Camp' along with some Economics Honours volunteers in the Tibetan Colony at Majnu ka Tila, Delhi. Jaagriti, the enabling unit organized its Annual Fest SAHARSH'19, an intercollege fest for disabled students on 27 February 2019. NSS organized a week-long campaign in collaboration with Goonj in the month of October, 2018. Volunteers participated in an event organized by Kailash Satyarthi Children's Foundation aimed at making slum communities children friendly. A donation drive was carried out in 'Bal Sahyog', an orphanage. The NSS Unit also organized a "AbSamjhautaNahin" workshop sponsored by ITC Vivel in collaboration with Josh Talks on 31 January 2019 with an objective of creating awareness on gender-sensitive issues and equipping students with their legal rights.

## **Library Development**

During the year 1741 text books were added in the library. Total no of text books in the library is now 49919. Library has the provision of e-books and digital database also, through DULS and INFLIBNET.

## **Faculty Strength**

Total Permanent Faculty - 42

Total Adhoc Faculty - 26

## **Financial Allocations and Utilizations:**

Grant received - Rs. 1524.90 Lakhs

Grant utilized - Rs. 1524.90 Lakhs

## **Other Significant Information**

The college has initiated the seed funding to encourage research by faculty. Faculty getting their research published in Scopus or Web of Science listed journals would get a monetary incentive of INR 10, 000 subject to a maximum amount of INR 20, 000 per academic year. College has also instituted an award of

INR 50, 000 for incubation of the Best Innovative Idea to be converted into a Start-up. In addition, the college has set up a Centre of Excellence in association with Bombay Stock Exchange Institute Limited to carry out joint academic activities including seminars, conferences, provision of data, etc. An internship program was organized with over 150 students from various colleges, school, and professional backgrounds, learning about the intricacies of the financial world. In the month of January 2019, a Financial Literacy Drive was conducted under FIC's project Vittyay - The Financial Literacy Programme. FIC has successfully released 15 issues of its weekly financial newsletter FIC Weekly.

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## **SRI GURU NANAK DEV KHALSA COLLEGE**

### **Major Activities and Achievements**

The Internal Quality Assurance Cell (IQAC) of the College organized various training sessions and workshops on goals of higher education, learning management systems, quality assurance in higher education etc. The IQAC also took a number of initiatives for improving teaching and learning on campus and laid emphasis on the feedback of students, parents and teachers. The College published its bi-annual online e-newsletter and the third issue of its Journal of Research and Innovation. A Government E-Market Place (GEM) was launched in the college. The college also organized 'Ankur: Athletic Meet for Visually Impaired' for inculcating self confidence in the differently abled students and making them part of the mainstream as agent of development. To imbibe students with ethical and moral values, our College has recently started *Bisman*: Centre for Human Values, so that we are able to provide well educated, humble and concerned citizens to work for society.

### **Honours/Distinctions**

Kaur, Bhupinder was awarded Saraswati Samman by Mahila Kavya Manch.

Kaur, Hardeep was awarded Dr.Tarak Nath Bali Smriti Samman 2018 by K. B. Hindi Sahitya Samiti, Badayun, Uttar Pradesh.

Singh, Gurmohinder was appointed Independent Director of BEML (A miniratnal company, Ministry of Defence) by the President of India. He was also appointed the Member of Punjabi Vikas Committee, D.S.G.M.C.

Bakhshi, Bhupinder Pal Singh was awarded Ph.D. in the 95<sup>th</sup> Annual Convocation held on 19 November, 2018 by University of Delhi. The topic of his Ph.D. thesis is 'Meta-Study of Dr. Tarlok Singh Kanwar's Literary Criticism'.

Khurana, Sarika was awarded Ph.D. on 18 April, 2018. The topic of her Ph.D. thesis is "Failed Emigration' from Punjab: A Study of the Success and Failure of Aspiring Migrants'.

Mishra, Radhika submitted her Ph.D. to University of Delhi on 27 April, 2018. The title of her Ph.D. thesis is 'Schooling the Poor: Aspects of educational practices and Social Policy towards working people in British India c. 1880-1940'.

Singh, Baljeet was awarded Ph.D. in the 95<sup>th</sup> Annual Convocation held on 19 November, 2018 by University of Delhi. The topic of his Ph.D. thesis is 'Mahakavi Santokh Singh Dian Sahitik Rachnawan: Itihas Chetna'.

### **Students with Distinctions**

Atul Kumar participated in the All India Inter University Handball Championship held at Guru Nanak Dev University, Amritsar.

Para athlete Prashant won gold medal in Taekwondo Championship and 200 m., silver medal in 150 m. events and a bronze medal in shot-put throw at the National Para Athletic Championship held at Patna in March, 2019.

JUO Sahil Dutt joined OTA Allahabad. JUO Varun Tripathi was selected to attend SSB Course at Officers Training Academy, Kamptee.

Rajesh achieved 7<sup>th</sup> place in the event 'Walkathon' for the differently abled students organized at St. Stephen's College on 4 April, 2019.

A photograph captured by the Photobug member (Photography Society) Harmeet Singh (B.Com. (P) III year) was selected as one of the best photos and featured in the photography magazine CHIZ.

### **Publications**

Bala, Anju. (2018). Hindi Sahitya aur Dalit Vimarsh. Delhi: Sahitya Sanchaya.

Bindra, Jasvinder Kaur, J. (2018). Desh-Dharma Ke Rakshak: Guru Gobind Singh. Delhi, India: Prabhat Paperbacks.

Chaturvedi, Saumya. (2019). Business Environment. Delhi, India: Scholar Tech Press.

Singh, Gurmohinder. (2018). *Samikhya Sandharbh* (Criticism), New Delhi, India: M P Prakashan.

Mamta, A. (2018). An Analysis of Trade between India and Latin American Countries: Pattern and Composition. Journal of Research and Innovation, Vol. 3(1).

Kaur, B. (2018). Guru Gobind Singh ke Kavya Mein Rashtriya Bodh ki Pratidhwani. International Journal of Innovative Social Science & Humanities Research, Vol. 5(2), 440-444.

Kaur, M. Vij, M. (2018). Corporate governance index and firm performance: empirical evidence from Indian banking, Afro-Asian Journal of Finance and Accounting, Vol. 8 (2), 190-207.

Thomas, A. Kumar, M. (2019). Influence of stream habitat variables on distribution and abundance of tadpoles of the endangered Purple frog, *Nasikabatrachus sahyadrensis* (Anura: Nasikabatrachidae). Journal of Asia Pacific Biodiversity. In press (available online) doi: 10.1016/j.japb.2019.01.009

### **Journals**

Journal of Research and Innovation (ISSN 2456-8740)

Total number of college teachers serving as Editor/Members of Editorial Board: 6

### **Seminars organized**

'Coalition Politics in India: Boon or Bane?' on 7 February 2019.

Panel Discussion on 'Disability: Issues and Challenges in Contemporary India' on 14 March, 2019.

International Seminar on 'Hindi Kavita Ki Lokdharmi Parampara' by the Department of Hindi and Hindi Journalism on 1 November 2018.

'How to improve Employability of Students' on 8 February, 2019.

Seminar on 'Artificial Intelligence' on 24 January, 2019.

### **Seminar/Conference Presentations**

Deepmala, presented a paper entitled 'Bhartendu ka Rashtravadi Chintan' in Two Day International Seminar on Media, Sahitya, aur Rashtravaad, organized by P.G.D.A.V (Evening) College, University of Delhi, on 26-27 April 2018.

Kaur, Bhupinder presented a paper entitled 'Guru Gobind Singh ke Kavya Mein Rashtriya Bodh Ki Pratidhvani' in Two Day International Seminar on the theme Media, Sahitya aur Rashtravad organized by P.G.D.A.V. College (Evening) and Sahitya Sanchay Prakashan on 26-27 April 2018.

Kaur, Jasmine and Kaur, Gurneet presented a paper entitled 'Impact of Digitisation on Microfinance in India' at a Two Day International Conference on the theme Empowering Women: Fostering Entrepreneurship, Innovation and Sustainability organized by Shri Ram College of Commerce's Office of International Programmes, University of Delhi and NITI Aayog's Women Entrepreneurship Platform, Government of India and held at India International Centre, New Delhi on 16-17 July 2018.

Kundra, Balbir presented a paper entitled 'Vaishvik Star Par Hindi Basha aur Bhartiya Sanskriti' at Vishwa Hindi Sammelan held in Mauritius on 18-22 August 2018.

Shailja presented a paper entitled 'Vaishvik Parivesh Mein Hindi Bhasha Shikshan: Samsyayen Aur Samadhan' in One Day International Seminar on the theme 'Vaishvik Patal Par Hindi', held at Hansraj College, University of Delhi on 23 October 2018.

Singh, Indrajeet presented a paper entitled 'Civil Society and Human Rights in Contemporary India' at International Political Science Association Conference, Brisbane, Australia, held on 24 July 2018.

Singh, Mahendra Pratap presented a paper entitled 'Hindi Kavita Ki Rashtrawadi Drishti' at International Seminar on Media Aur Rashtrawad organized by P.G.D.A.V. College (Evening), University of Delhi on 26-27 April 2018.

Yadav, Savilata presented a paper entitled 'Bhartiya Swtantrata Aandolan aur Rashtravadi Patrakarita' in an International Seminar on the theme 'Media, Sahitya, aur Rashtravaad' organized by P.G.D.A.V. College, University of Delhi on 22 April 2018.

Chaturvedi, Saumya presented a paper entitled 'Financial Bootstrapping: Source of Funding for Technology Based Startups in India' in the 71st All India Commerce Conference of Indian Commerce Association organized by Osmania University, Hyderabad from 20-22 December 2018.

Kaur, Paramjit presented a paper entitled 'Rabindranath Tagore di Pustak Bharti Sanskriti da Kendra: Ek Adhian' in One-day National Seminar on Punjabi Sahit de Samajik Sarokar organized by and held at Dyal Singh College on 1 November 2018.

### **National/International MoUs Signed**

MoU with Haribhai. V. Desai Arts, Science and Commerce College, Pune with an objective to stimulate and facilitate the development of collaborative and mutually beneficial programs to enhance the intellectual life and cultural development in both institutions.

MoU with ten colleges of University of Delhi and Guru Gobind Singh Indraprastha University with an aim to form a *Cluster* to undertake collaborative activities in field of higher education. The main objective has been to promote and facilitate the students and teachers exchange programs, and undertake joint activities in faculty development.

### **Placement Details**

Number and percentage of students placed: 153 (61.2%)

Number of Companies visited for campus recruitment: 23

### **Extension and Outreach Activities**

Number of Extension and outreach activities organized by the NSS: 30

Number of NSS Members in the current academic year: 110

International Yoga Day was organized on 21 June, 2018. Talk by a Yoga instructor along with a demonstration of 'Yogasanas' was given on this event. College Principal, teaching and non-teaching staff participated in the events and practiced *yogasanas* with NSS volunteers in the College campus. *Swachta Pakhwara* was celebrated by the NSS volunteers from 2-16 August, 2018, wherein NSS volunteers with Principal and teachers took pledge to keep the College and environment clean. A talk was also organized on 'clean environment and pollution management'. Our volunteers also organized awareness campaigns in Dr. N.C. Joshi Memorial Hospital and in a slum at Kirti Nagar and also carried out a Swachhta Rally in Dev Nagar during the Swachhta Pakhwara. NSS volunteers organized a week long drive to collect clothes and money for Kerala Flood Donation. The collected clothes and 5000/- cash were given to GOONJ-NGO for sending them to Kerala flood victims.

### **Library Development**

Books, Journals and Periodicals added during the academic year 2018-19; General Fund: 1255; Student' Aid Fund: 86 ; BBE Fund: 27; Hindi Journalism Fund: 75

### **Faculty Strength**

Permanent - 48

Ad-hoc - 37

### **Financial Allocation and Utilization**

Grant received: Rs. 2570.80 lacs

Grant utilized: Rs. 2482.70 lacs (approx.)

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## **SRI GURU TEGH BAHADUR KHALSA COLLEGE**

### **Major Activities and Achievements**

The College held an Orientation Day on 20 July 2018 and celebrated its Founder's Day on 11 December 2018. The College has been ranked 23<sup>rd</sup> amongst the top 100 colleges in the country by NIRF and is ranked 3<sup>rd</sup>, in terms of per capita research publications. Guru Angad Dev- Teaching Learning Centre (GAD-TLC) at the college was awarded by MHRD as the only National Resource Centre in Chemistry (NRCC) in the country. The Centre also organised 1 Faculty Induction Programme and 4 Faculty Development Programmes on e-learning and MOOCs. The college organised 3 International Symposium/Conferences, including one on "Guru Nanak's Philosophy and Legacy". The college had three University Toppers in the academic year and 73% students secured first division. The college performed exceedingly in sports, winning 6 Delhi University Inter College tournaments.

### **Honours/Distinctions**

Innovative conceptualisation, design and structure of the First Online Refresher Course in Chemistry, National Resource Centre of Chemistry (NRCC) was awarded Distinctive Citation - India Didactics Association (IDA) Award (Corporate) 2018 in the category Product of the year- Higher and further Education at the 10th DIDACTIC.

Principal, Dr Jaswinder Singh was awarded the 34<sup>th</sup> Dr. Radhakrishnan Memorial National Award as Outstanding Teacher by Akhil Bhartiya Swatantrata Patrakar and Lekhak Sangh.

Dr Vanita (Dept of Punjabi) was awarded Bharat Ratan Indira Gandhi Gold Medal Award by Global Economic Progress and Research Association.

Dr Sumita Lohia (Dept of Hindi) was awarded the 'Sahitya Sarang Samman' by " Vishwa Hindi Sahitya Parishad" for significant contributions to Hindi language and literature at Milan, Italy.

Dr Vimal Rarh (Dept of Chemistry) is the only Chemistry teacher from the entire country to be chosen as Coordinator, National Resource Centre of Chemistry by MHRD, Govt. of India.

The college also secured third place in Basketball and Baseball in Men's category in the Delhi University Inter College Tournament.

### **Students with Distinctions**

Ms Manpreet Kaur, B.A (H) Punjabi III year stood first in University of Delhi.

Ms Simran Kaur, B.Sc (H) Zoology III Year stood first in University of Delhi.

Ms Simran Kaur, M.A (H) Punjabi II Year stood first in University of Delhi examination, 2018.

Amoj Jacob represented India in the Commonwealth Games 2018 in Athletics and secured third place in 800m in Senior Federation.

The college's athletics players, Prajjwal Roy, Amit Tiwari, Gagandeep Bharti and Parth Lakra participated in Invitational South Korea Athletic Meet 2018.

Raju Rajan participated in the Junior's men's Softball World Championship 2018

### **Publications**

Bumrah, G. S., Sodhi, G. S., Kaur, J. (2019). Oil Red O (ORO) reagent for detection of latent fingermarks: a review. *Egyptian Journal of Forensic Sciences*, 9(1), 3. <https://doi.org/10.1186/s41935-018-0107-1>

Ghosh, S. (2018). Autonomy for Universities: Government's Move to Privatise is Exclusionary. *The Economic and Political Weekly*, 53(13), 31.

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. <https://doi.org/https://doi.org/10.1016/j.mimet.2019.03.002>

Joseph, A. J., Sinha, N., Goel, S., Hussain, A., Kumar, B. (2018). True-remnant, resistive-leakage and mechanical studies of flux grown 0.64PMN-0.36PT single crystals. *Arabian Journal of Chemistry*. <https://doi.org/https://doi.org/10.1016/j.arabjc.2018.06.012>

Kaur, A. (2018). *Aaeyan Ne Yadan Terian (Memories of Amrita Pritam) (First)*. Delhi: Shilalekh.

Kaur, H., Shashi, 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. <https://doi.org/https://doi.org/10.1016/j.ejop.2019.01.002>

Kumar, S., Kumar, D. (2019). Lie symmetry analysis, complex and singular solutions of (2+1)-dimensional combined MCBS--nMCBS equation. *International Journal of Dynamics and Control*, 7(2), 496–509. <https://doi.org/10.1007/s40435-018-0463-6>

Sagar, A., Kaur, I., Mathur, P. (2019). A New Concept in Organic Farming: Efficacy of Brassinosteroids as Foliar Spray to Ameliorate Growth of Marigold Plants. *Environment and We- International Journal of Science and Technology*, (14), 25–36.

Sharma, G., Subramaniam, S., Sehgal, S. (2019). Are Prominent Equity Market Anomalies in India Fading Away? *Global Business Review*, 097215091881124. <https://doi.org/10.1177/0972150918811248>

Sharma, S. K., Kaur, G. (2019). *Fundamentals of Investments (First)*. Delhi: Sultan Chand & Sons (P) Ltd.

## **Research Projects**

Komal Kamra, DST-SERB Project 'Characterization of Free Living Ciliated Protists as indicators of pollution and their impact on micro-ecology of river Yamuna flowing through National Capital Region of Delhi, India', EMR/2015/001505, INR 63,26,840 (2016-2019)

Mamta and Sukanta Dutta, CSIR Project 'Signatures of New Physics at present and future Colliders', 03(1340)/15/EMR-II, INR 4,25,000 (2016-2019)

## **Patents filed/granted**

Number and title of national patents

G.S. Sodhi and Jasjeet Kaur: 'Detection of latent fingerprints on moist, non-porous surfaces', Indian Patent No. 295542, April 5, 2018.

G.S. Sodhi and Jasjeet Kaur: 'A spray formulation for detecting latent fingerprints on moist, non-porous surfaces and a method of preparation of the same', Indian Patent No. 304796, December 21, 2018.

## **Seminars/Workshops Organised**

Sh. Deepak R. Handa, Principal Scientific Officer, Central Forensic Science Laboratory, New Delhi, delivered a lecture entitled Basic Aspects of Forensic Documentation on 22 January 2019.

Adv Shubhra Mendiratta, In-charge- Rape Crisis Cell, Delhi Commission for Women conducted a workshop on the 'Legal Rights of Women and Prevention of Sexual Harassment Laws' on 21 September 2018.

Prof. Nityanand Tiwari (Critics and Eminent Thinker), Prof. Apoorvanand (Eminent Columnist), Prof. Sudha Singh (Feminist Thinker), Dr. Asha Mehta (Associate Prof., S.G.T.B. Khalsa College), Sri Gurubhej Singh Guraya (Secretary, Maithili Bhojpuri Academy, Delhi Government) spoke in the National Seminar titled 'Navjagran ki Vaichariki Evam Punarvyakhya' on 1 November 2018.

GAD-TLC was chosen as National Institute of Education Planning and leadership (NIEPA) to conduct One Day workshop on 10<sup>th</sup> January 2019 for video recording of the lectures under their One Week National Workshop for Leadership in Higher Education from 7-11 January 2019.

Mr Anand Mohan De (Alumni from IIM Calcutta) delivered a talk during Seminar on 'Effective and creative resume' on 22 October 2018.

## **Conferences/Symposia Organised**

International Conference on 'Guru Nanak's Philosophy and Legacy was organised on 22-23 February 2018, jointly by the college, Delhi Sikh Gurudwara Management Committee and Shiromani Gurudwara Prabandhak Committee.

International Conference on 'Nanostructured materials and Devices' was organised on 17-21 December 2018, jointly by the college and Society for Technologically Advanced Materials of India (STAMI), University of Delhi.

The second International Symposium on Ciliate Biology was organised on 4-6 April, 2018, jointly by the college and International Research Coordination Network for Biodiversity of Ciliates (IRCNC-BC), an affiliate society of International Society of Protistologists (ISOP).

## **Seminar/Conference Presentations**

Rajshree Dhali presented a paper titled "Making of Space by Erstwhile Un-touchables: A Study of Historical Narratives" in the panel "Dalit and Adivasi Narratives and the Contestation of Space" at the 25th European Conference on South Asian Studies (ECSAS2018), at Paris (France), 24-27 July 2018.



Smita Mishra presented a paper on 'Hindi Sports Journalism' at World Hindi Conference organized by Ministry of External Affairs, Government of India and Government of Mauritius held at Mauritius, 18-20 August 2018.

Bipin Thakur presented a paper entitled "Relevance of Shanti Parva for the Present-day Polity and Governance in India" in the International Research Seminar on Hindu Cultural Trails: Celebration of a Timeless Tradition- Gods and Goddesses, Pilgrims and Prayers, Temples and Texts held at the Indira Gandhi National Centre for Arts, New Delhi, India on 8-9 October 2018 organized by SAARC Cultural Centre, Sri Lanka and Indira Gandhi National Centre for Arts, New Delhi.

Thakur, Chinmaya Lal, presented a paper titled "From Tolerance to Responsibility: Reading Subalternity in/and Indian Literature in English" at the National Conference 'Tolerance and Bigotry: Contestations in Indian Literature in English' organized by IACLALS and the Department of English, Aligarh Muslim University in February 2018.

Tarun Kumar, presented a paper titled "Understanding the History of Koguryo Kingdom Through Archaeology" in an international seminar organized by Researchers' Association for the Study of Korea (RASK) in collaboration with the Department of East Asian Studies (Delhi University) at the Conference Centre (Delhi University) on 26-27 October 2018.

Amanpreet Singh Gill presented a paper on 'Guru Nanak: Contemporary Relevance' at International Conference on Guru Nanak: Life and Philosophy' held at SGTB Khalsa College, Delhi on 22-23 February, 2019.

Kamra K, Kaur H, Shashi, Narula L, Kaur S, Lal R, Warren A. presented a paper on Mapping ciliated protist communities along a lotic water body with deteriorating water quality in an International Symposium on Ciliate Biology (ISCB 2018) with International Research Coordination Network for Biodiversity of Ciliates Affiliated Society of International Society of Protistologists held at Indian Habitat Centre, New Delhi from 4-6 April 2018

#### **Other Inter-Institutional Collaboration**

Guru Angad Dev- Teaching Learning Centre, SGTB Khalsa College is a Centre of MHRD, Govt of India under PMMMNMMT scheme. The Centre conducted Faculty Induction Programme-02 of one-month duration from 7<sup>th</sup> May to 2<sup>nd</sup> June, 2018.

Four Faculty Development Programmes (FDP) were organized in e-learning and MOOCs for in-service teachers. These FDPs are recognized by CAS for promotion of teachers.

#### **Placement details**

Number and percentage of students placed: 75, 62.5%

Number of companies visited for campus recruitment: 48

#### **Extension and Outreach Activities**

The NSS Unit of the college organised various activities including 'Swachhta Rally' on 10 October, 2018 wherein the volunteers undertook extensive cleaning of the college campus and public spaces along the main road; the 'Born to Run' event (in collaboration with Max Hospital) to promote awareness regarding physical and mental health; a Blood Donation Camp in collaboration with Red Cross India; its annual event, 'Sarahana' for differently-abled students from several Delhi University colleges and an International Day of Yoga.

#### **Library Development**

The college has a well-stocked library having nearly 1,36,000 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 (Rupees Twelve Lakh Sixty Thousand only). 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.

### **Faculty Strength**

Permanent - 94

Ad hoc - 62

### **Financial Allocation and Utilisation**

Grant sanctioned: Rs 35,00,00,000/-

Grant utilized: Rs 35,00,00,000/-

### **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. Centre for e-learning (Cfel) made recent collaborations with MHRD, Govt of India, Delhi Police and Indian Cancer Society to provide technical expertise in areas of video recording and editing facility. The first online chemistry refresher course prepared by GAD-TLC was made available for all chemistry teachers of universities /colleges of India from 1November 2018. This course which has been uploaded on the SWAYAM portal of the MHRD in the form of MOOCs was made available free till 28 February 2019. 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.

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## **SRI VENKATESWARA COLLEGE**

### **Major Activities and Achievements**

This year the college has entered the international academic arena by signing joint agreement for cooperation in Bioinformatics with Martin Luther University, Halle-Wittenberg, Germany in February 2019. Also a Memorandum of Understanding (MoU) for academic & cultural exchange with Nordic Centre, a consortium of 19 universities in Sweden, Norway, Iceland, Denmark and Finland has been signed. The college has conducted add-on courses on contemporary topics such as Entrepreneurship, Climate change, Intellectual property rights, Ayurbiology to augment the bouquet of routine undergraduate and post graduate programs to give students exposure to the frontier areas in different domains. Our faculty members have been a part of DST-Austria cooperation fund in computational biology and the DST India-Thailand faculty exchange program. 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.

### **Honours/Distinctions**

Dr. N. Latha, Associate Professor, has been conferred upon the coveted "Excellence Award for in-service teachers" in college category by University of Delhi on the occasion of 97<sup>th</sup> foundation day.

### **Students with Distinctions**

Vikas Sharma, B.A. (Hons.) Hindi III year, II rank DU

Shivani Galhotra, B. A. (Hons.) Sociology, II rank UDSC

Manu Krishna, B. Sc. (Hons.) Chemistry, IIT JAM Topper

### **Publications**

Ching, N. (2019). As men of one country: Rethinking the history of the Anglo-kuhi war' in guite and Haokip (eds), *The Anglo Kuhi War, 1917-1919*. London and New York: Rout Ledge, 2019.

Kumar, R., Kadyan, M.S. (2018). Rerformances Analysis and Maintenance Planning of Evaporation System in the Sugar Industry by using Supplementary Variable Technique. *Journal of Industrial Integration and Management: Innovation and Entrepreneurship (World Scientific)* 3 (1), 1850004-22

Kumar, K. (2018). United States and Its Challenge to Multilateralism in the Global Economy. *India Quarterly* Vol. 74 (4) Sage ISSN-0974-9284 online ISSN: 0975-2684.

Kumar, N., Kaur, R.. (2019).Imagined and Real Widowhood in Two Hindi Films : A case Study of Kati Patang and Prem Rog. In Manish Kumar Mishra abd Manjit Maan, Eds., *Kaleidoscope of Indian Cinema:From Cacophony of Voicesto Euthony of Verses*. Kanishka Publishers, New Delhi, pp 22-33, ISBN no. 978-81-8457-859-1.

Kumar, K. (2018). Megaregionals in the World Trading System : The end of the road for WTO? *World Affairs*, Vol 22, Number 4, ISSN 0971-8052.

Mathur, S. (2018). Sovereign Ratings: Determinants and policy implications for India.IIMB Management Review Vol 30 (29) 140-159.

Singh, S., Singh, S., &Arora, R. (2019). An unconditionally stable numerical method for two-Dimensional Hyperbolic Equations. *East Asian Journal on Applied Mathematics*, 195-211.

Seenivasan, S. (2018).Kolaiyil Uthiththa Kulasamikal: Ariyappadatha Aruthathiyar Inavaraiviyal. *Neithal Avivu: Tamil Quarterly*, Chennai: January-March, 2019, pp 10-18, ISSN: 2456-2882.

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* doi:10.1016/j.jmb.2019.01.004.

Singh, S., Rajendran, V., He, J., Singh, A. K., Achieng, A. O., Pant, V., Nasamu, A. S., Pandit, M., Singh, J., Quadri, A., Gupta, N., 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. (2018). Fast-acting small molecules targeting malarial aspartyl proteases, plasmepsins, inhibit malaria infection at multiple life stages. *ACS Infectious Diseases*.

### **Journals**

Number of college teachers serving as Editor(s)/Member(s) of Editorial Board:

Dr.Vandana Malhotra, Assistant Professor, Department of Biochemistry, is a Member, Editorial Board, OMICS journal for mycobacterial disease.

Dr. Vandana Joshi, Associate Professor, Department of History, Editor, CASH (Cultural and Social History), an international journal, UK.

## **Research Projects**

Dr. Nirmal Kumar, Mission of Himalayan Studies by National Mission of Himalayan, MoEFCC, entitled “Sustainable Tourism of hill Cultures and Ecology in abandoned villages of Uttarkhand - A pilot project” (Rs.50,00,000/-)

Dr. Veena Budhiraja, Department of Science and Technology DST entitled “Contribution to cost efficient trend free factorial designs by (Rs.17,90,000/-)

Dr. N. Latha, DST India-Austria Cooperation Fund: Combined computational and experimental approaches for recombinant production of pectate lyase major allergens (2018) Funding: Rs 8.6 lakh

## **Seminars Organized**

National Seminar on Climate Change and Sustainable Development organized by Sri Venkateswara College and SED India on 6-7 April 2019.

National symposium on “Problems of Hill states: A case study of Uttarakhand” on 14<sup>th</sup> November 2018.

## **Conferences Organized**

Two day Faculty Development Programme cum workshop entitled “Climate across the curriculum – Integrating climate science and science education” in association with IISER Pune, on 13<sup>th</sup> and 14<sup>th</sup> October 2018.

Faculty Development Programme on ICT Enhanced Teaching and learning, organized by IQAC, Sri Venkateswara College from 1- 4 November, 2018.

## **Seminar/Conference Presentations**

The First Indo-German Bioinformatics Workshop on Feb 8,2019 at Martin Luther University Halle-Wittenberg, Germany.

Mansi Verma gave a Keynote presentation at the “International Conference of Bioinformatics and System Biology” held during March 20-21, 2019 in Singapore City, Singapore.

## **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.

## **Other Inter-Institutional Collaboration:**

Collaboration with IISER, Pune, on Trans Disciplinary Research Oriented Pedagogy-International Council for Science (TROPICSU) for developing e-lesson plans to integrate climate education with core curriculum.

## **Placement Details**

Number and percentage of students placed: 158

Highest package: 17.75 lakhs pa

Average package: 4.04 lakhs pa

### **Extension and Outreach Activities**

Swachh Bharat Summer Internship on 1 May-31 July 2018, 18 volunteers were part of this.; 18 volunteers were registered with P.O. International yoga day celebrations on 21 June 2018, 30 volunteers of NSS-SVC, 20 teachers and 10 staff members of SVC participated. Doordarshan program on higher education on 17 July 2018, 10 volunteers of NSS-SVC participated in this. Kerala floods collection drive: 21-22 August 2018 on NSS-SVC volunteered for Kerala floods collection drive. Total amount of Rs. 54,138 which was collected, was transferred to Kerala Relief (a/c: 13621001100745) through NEFT and 48 boxes material was sent to AIIMS, Delhi. This was covered by Doordarshan and was broadcasted Seminar and plantation drive on 30 August 2018, Seminar on "Environment" by Sushant Kumar(I.F.S.) and plantation drive was organized in SVC. NSS-SVC volunteered in this event. Dr. Istyak Ahmad, CEC, New Delhi attended plantation drive. 71 trees in the SVC campus were planted by 50 volunteers of NSS-SVC.

### **Library Development**

Our library has air-conditioned and Wi-fi enabled reading room. Separate reading room for students and faculty. Number of books/accessions are 1,45,891 and Number of electronic databases in library are 14386. Total number of subscriptions to international journals (electronic): 7832 (DULS) and 6327 (through N-list). Total number of National and International Journal are 24 and 3 respectively.

### **Faculty Strength**

Total sanctioned faculty: 183

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 55,14,84,000.00

Grant utilized: Rs. 60,11,46,000.00

### **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 Subramaniam 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.

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## ST. STEPHEN'S COLLEGE

### Major Activities and Achievements

St. Stephen's College was placed at All - India number four position in the NIRF rankings and at All- India number one position in the India Today rankings.

H H the Dalai Lama was the Chief Guest at the Founder's Day ceremony held on the 7<sup>th</sup> Of December, 2018.

An NCC girl's wing was formally established at College.

### Honours/ Distinctions:

Dr. Renish Geevarghese Abraham was awarded Visiting Lectureship to deliver a series of lectures on 'Indian Classical Literature and Understanding India' at Soka University, and Keio University (SFC) Tokyo, Japan, from 5-25 October 2018.

Dr. C. B. Jha served as the Sectional President of Classical Sanskrit Section of All India Oriental Conference in its 49<sup>th</sup> session at Somnath, Gujarat.

Dr. Aditya Pratap Deo completed two years of Fellowship at the Indian Institute of Advanced Study, Shimla. He was also the Convener of the Fellow's Council at IAS.

### Students with Distinctions

M. Makhan Lal Gold Medal – Garima Thareja, B. Sc. Mathematics (Honours)

Rai Bahadur Brijmohanlal Saheb Memorial Gold Medal – Garima Thareja, B. Sc. Mathematics (Honours)

Shri Suresh Bhatia Memorial Gold Medal – Garima Thareja, B. Sc. Mathematics (Honours)

Prof. K. N. Johri Memorial Gold Medal – Deepansh Gill, M. Sc. Chemistry

Vice Chancellor's Gold Medals (Physically Challenged Student) – Shubhuti Khandelwal, B. A. Economics (Honours)

B. Sc. (Honours) in Physics – Saurabh Kumar

Dr. J. N. Mitra Memorial Prize – Garima Thareja, B. Sc. Mathematics (Honours)

### Publications

Dayal, N., Roy, K. Questioning Paradigms, Constructing Histories: A Festschrift for Romila Thapar, 2019.

Gabriel, K. 'Electronic Pornography and the Transnational Assemblage of Sexuality', in Jeff Hearn et al (eds.) Unsustainable Institutions of Men: Transnational Dispersed Centres, Gender Power, Contradictions, UK: Routledge, 2019.

### Research Projects

"A Study of Information Access Mechanism for Visually Impaired Students in Higher Education Institutions in Delhi" by Dr. Raj Kumar Bharadwaj.

DRDO Project under Dr. Satish Kumar, Dept. of Chemistry, St. Stephen's College.

### Seminars Organized

Chakrabarty, D. St. Stephen's College and The University of Chicago Centre in Delhi, Interactive Seminar with Prof. Chakrabarty on 'Climate Change and the Human sciences, 26 March 2019.

Lahiri, N. lecture entitled 'Emperor Asoka: An Interplay of History and Memory' on 9 January 2019.

Samuel, J. The Popli Memorial Lecture Series, 18-20 April 2019.

### **Conferences Organized**

National Conference on 'Emerging Trends and Advances in Chemical Sciences (ETACS), St. Stephen's College on 25-26 September 2019.

National Conference on 'Texts, Utopias and Dystopias', Dept. of English, St. Stephen's College on 27-29 March 2019.

Panel Discussion on 'Experiences of Marginalization and Discrimination in University Spaces', Gender Studies Cell in Collaboration with the Enabling Unit and the Gandhi- Ambedkar Study Circle, St. Stephen's College on 24 January 2019.

Panel Discussion on 'Should Borders Matter? Anti- Immigration Sentiments in North- East India', The North- East Society, St. Stephen's College

### **Seminars/Conference Presentations:**

Naina Dayal presented a paper titled 'Deconstructing Indian and Pakistani textbooks on our ancient pasts' at an international conference on 'Reaching History', organized by The Seagull Foundation for the Arts in Kolkata in July 2018.

Karen Gabriel presented a paper titled 'Visuality, Mediation, Technology and the Text' at a conference on 'Globalization, Culture and Identity: New Directions', at India International Centre on 20 August 2018.

Renish G. Abraham delivered a public lecture on 'Tagore and Japan' at Keio University (Shonan Fujisawa campus).

Vibha Sharma delivered a lecture on invitation titled 'inorganic Reaction Mechanism' at Delhi University's Pre- entrance Summer School in June, 2018.

Ashutosh Dayal Mathur presented a paper on the Mahabharata Manjari at the International Mahabharata Conference at Tirur, Kerala in December, 2018.

### **Placements details**

Over 50 internships were undertaken by our students this academic year.

Several students secured placements in top MNCs and corporate establishments both nationally and globally.

### **Extension and Outreach activities**

An open, Breast Cancer Awareness Talk in association with National Association for the Blind, Discovering Hands and Fortis Hospital to spread awareness regarding breast cancer.

Offbeat Carnival with an aim to increase mental wellness in campus.

An Accessible Text Creation Workshop to promote academic accessibility for the visually challenged in association with SAKSHAM.

Enactus St. Stephen's Chapter launched Project Aisha which aims to provide medical aid to areas that would not – under normal circumstances- have access to it by working on a scalable model of data collection.

Environmental Fortnight was observed.

### **Library Development**

In 2018-19, College library added 876 books in its collection and spent Rs. 1343891 on books and subscribed 11 print journals costing Rs. 185238. Besides this, library also spent Rs. 69797 on furniture and Rs. 43569 on binding of books. Library also renewed the membership of the National Library Infrastructure

for Scholarly Content (NLIST) in the year 2018-19. St Stephen's College library has started the feedback mechanism system wherein students can submit their responses to the library. A user awareness programme on e-resources for science students was organized on January 25, 2019 wherein large number of students participated. Two-day training programme on theme "Motivation and Professional Competencies for Library Professionals" was organized for library staff on December 19-20, 2018. In addition, a dialogue series was started to discuss the emerging issues in the field of library and information science. College Library also organized 14 theme based book exhibition for the students and faculty members during 2018-19. Library has also started Leave one-Take One (LOTO) wherein students can leave any personal book and take one. The LOTO has been started with the aim to inculcate the sharing and reading habits among Junior Members. LOTO was inaugurated by the Principal on December 19, 2019.

### **Faculty Strength**

Permanent -58

Ad hoc -38

### **Financial Allocation and Utilization:**

Grant sanctioned: Rs. 25,03,39,000/-

Grant utilized: Rs. 29,76,65,465/-

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## **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.

### **Honors/Distinctions**

The college won II<sup>nd</sup> Prize in Delhi University Garden Day.

Kevin Sadhu won 2<sup>nd</sup> prize at PULSE GOT TALENT organised by AIIMS, Delhi.

First prize in Group singing competition organized by New Delhi institute of Management (NDIM), Tarana' 18.

Secured first position in its very first performance of the current year at Navrang - The Cultural Festival of Bhagini Nivedita College.

Secured First Position In Duet Performance - organized by TVF Mumbai. Performed at IIT Powai (Mumbai).

### **Publications**

Giri, B. (2018). Root Biology. Springer International Publishing AG.

Giri, B. (2018) Chapter: Ruthenium Compounds: A New Approach in Nano chemistry, in the book entitled Ruthenium Chemistry, by Pan Stanford Publisher, Singapore, ISBN: 9789814774390. (2018) Chapter: Nanotechnology: An Emerging Field for Sustainable Water Resources, in the book entitled Nanotechnology for Sustainable Water Resources, by Wiley-Scrivener Publishers, USA, ISBN: 978-1-119-32359-4.

Gupta, R. (2019) Co-authored a book "Financial Reporting and Analysis" published by JSR publishing house LLP, New Delhi, First Edition (ISBN : 978-93-87684-36-2)

Garg, P. Published a book 'Biodiversity and its conservation'. Neeraj Publishing House. Garg P.



Kumari, M. Sharma, M. Singh, V.B. (2018). An improved classifier based on entropy and deep learning for bug priority prediction. In Proceedings of The International Conference on Intelligent Systems Design and Applications ISBN 978-3-319-76348-4.

Kumari, M., Sharma, M., Singh, V.B. (2018) Severity Assessment of a Reported Bug by Considering its Uncertainty and Irregular State, International Journal of Open Source Software and Processes, Volume 9, Issue 4, pp.20-47, DOI: 10.4018/IJOSSP.2018100102.

Kumari, V. (2018). Co-Writer of 'Brihat Hindi-Hindi Kosh' published by Central Hindi Directorate, Ministry of H.R.D, Govt. of India.

Plaiwal, L.R. (2018) FINANCIAL ACCOUNTING (Hindi and English) for Under Graduation Course published by Rajasthan Pathya Prakashan, Jodhpur.

Rupini, B., Kumar, Y., Singh, P., Gupta, M. (2018). Chemical Disaster Management and Environmental Impact: A Review on The Present Day Scenario In India, Chapter No. 10 in The Book "Environmental Degradation", JRF International Book Publication, pp. 143-155. ISBN-978-93-87739-20-8

Saxena, G. (2018). Biological control of root knot and cyst nematodes using nematophagous fungi. in Giri et al. (eds.) Root Biology, Springer International Publishing AG, pp-221-238.

Sharma, M., Pham, H. Singh, V.B. (2019). Modelling and analysis of leftover issues and release time planning in multi-release open source software using entropy based measure International Journal of Computer Systems Science & Engineering, Volume 34, Issue 1, pp. 33-46. Indexed in DBLP, SCOPUS.

Singh, P.P. (2018). "Organic Spectroscopy", by "Viva Books Private Limited" New Delhi. ISBN: 9789387925120.

Yadav, R., Singh, P., Gupta, M. (2018) authored a chapter "Multilevel Graded Environment Education and Evolution of Green Chemistry Research and Accomplishment For Sustainable Development" in the Book "Environmental Degradation", JRF International Book Publication, pp. 107-128, ISBN - 978-93-87739-20-8

Yang, H. Schroeder-Moreno M, Giri B, Hu S. (2018). Arbuscular mycorrhizal Fungi and their response to nutrient enrichment. In: Giri et al. (eds.) Root Biology, Springer International Publishing AG, pp-429-450.

Kumari, M., Sharma, M., Singh, V.B. (2018). Severity Assessment of a Reported Bug by Considering its Uncertainty and Irregular State. International Journal of Open Source Software and Processes, Volume 9, Issue 4, pp.20-47, DOI: 10.4018/IJOSSP.2018100102.

### **Journals**

Mahajan L, member of Editorial Board as Review Editor in Molecular Innate Immunity, part of the journal(s) Frontiers in Immunology (Journal Impact Factor 6.429, 5th most cited Immunology journal in the world).

Chanana K.S. (2018) "Rituparno Ghosh's Chitrangada as seen through the lens of SRS (sex-reassignment surgery)" JSL, The Journal of the School of Language, Literature and Culture Studies, Jawaharlal Nehru University, Winter.

### **Research Projects**

Dr. Anand Malik, Associate Professor in Geography, Title- "Climate Change" Funding by ICSSR.

### **Seminar Organized**

Sookshma, the Microbiology Society organized a "One Day Symposium on "Intellectual Property Rights" with eminent speakers Ms. Pooja Kumar, Founder and Director of Innove Intellects and Ms. Ruchita Singh, a registered patent agent, on 11 October, 2018. Competitions on Poster Making and Crossword puzzle were organized and the certificates and prizes were distributed to the students of various departments of the college.

Sookshma, the Microbiology Society organized a talk on “Heart Attack- How, Why, When, To whom and What can prevent it?” by an eminent and Senior Consultant, Dr. Sunil Modi, MD, DM, Indraprastha Apollo Hospital, New Delhi, on 7 February 2019. It also organized an Industry-Academia Interaction titled “Bridging the Gap” with MagGenome Technologies Pvt. Ltd. on 22nd-23rd February 2019. MagGenome Technologies, headquartered in Cochin, India, began operations in 2014.

Dr. Mukesh Rana, organised a National Conference on *Smart Energy Resources and Sustainable Engineering* on 28-29 March 2019.

Short term course on “Training in Energy Technology & Sustainability” in association with MGICCC during period Dec 2018 – Feb 2019.

One day workshop on “SMART ENERGY TECHNOLOGIES” in association with MGICCC and DCRUST on 8 Feb 2019.

Two-day Awareness Program on “Climate Change and Sustainable Development” Feb 2019

Department of Commerce organised Lecture Titled “ MBA from India and Abroad” by TIME on 18 September 2018 and “ Career after Graduation “ by TIME on 29 January 2019

### **Seminar/Conference Presentations**

Dharam Veer Bhardwaj, Administrative Officer, 41st International Seminar and National Conference, Manipal University Jaipur, Rajasthan. 5-6 January 2019, Paper titled “Accounting Education and Research: Challenges and Problem in India”

71st All India Commerce Conference Organized by Faculty of Commerce, Osmania University Hyderabad, Telangana INDIA. 20-22 December. 2018, Paper titled “Corporate Social Responsibility: Policies and Practices” in Technical Session-III.

Geeta Saxena delivered a talk on ‘Nematophagous fungi: Bio-control agents of nematodes’ in National Symposium on Microbes and Nanotechnology in Sustainable Environment held on 7 February 2019 at Kirori Mal College, University of Delhi, Delhi.

Bhoopender Giri, delivered a talk on ‘Arbuscular mycorrhizal fungi as an environmental stress reliever’ at National Conference on Recent Developments in Plant Stress Biology: Translating Laboratory Research for Human Welfare (RDPSB-2018), 7-8 December, 2018, organized by the Department of Botany, Central University of Jammu, J & K.

Meera Sharma, Assistant Professor in Commerce: Presented a paper entitled “Analyzing Software Evolution through New Features, Feature Improvements and the Complexity of Code Changes Views” in Conference on Software Engineering and Data Sciences (CoSEDS 2018), 20-21 June 2018 at University of Kashmir.

S.K.Srivastava, attended the 14th Indo-Australian Biotechnology Conference with the theme on Emerging Modalities to Improve Cancer Outcomes held at the TATA Memorial Centre – Advanced Centre for Treatment, Research and Education in Cancer, Navi Mumbai on 22-23 October 2018.

Attended IMMUNOCON 2018, an International Meeting on Immunotherapy & Advances in Immunology at the Translational Health Science and Technology Institute 1-3 Nov 2018.

Manish Kumar, Assistant Professor in Pol. Science: participated in a National Conference on “Nationalist Discourse on Inclusion” organised by the Centre for Gandhi and Peace Studies, School of Social Science, IGNOU, New Delhi, from 4-5 August 2018.

Pankaj Lakhera, presented a research paper entitled “Khadi in Popular Culture: From India’s Freedom Fabric to Fashion Statement” in the national seminar “Mahatma Gandhi in Pristine Perspective organized by the Shyam Lal College, University of Delhi on 30-31 August 2018.

He also delivered a lecture in 35<sup>th</sup> National Conference on McKinsey 7S Model: Innovation Growth, Sustainability and Scalability of Business on 2 February 2019 organised by Tecnia Institute of Advanced Studies, New Delhi. He was a resource Person in a Faculty Development Programme on Impact Of Digitalization In Education, Law And Management organised by Delhi Institute of Rural Development , G.T. Karnal Road, Nangli Poona, Delhi from 17-23 December 2018

### **Library Development**

The college library has huge collection of more than 108000 books and it receives about 26 newspapers and 70 national and international periodicals which provide the latest information and knowledge to the users. The library has rich collection which is classified with general book section, text book section and reference book section based on Science & Technology, Art & Commerce and Humanities & Social Science subjects fulfilling the academic needs of the different kinds of users. Library also provides S.A.F. (student aided fund) books for students. The library collection is Library has spacious reading room and a separate section for teaching faculty and for differently abled students. More than 400 students visit daily for different services in this session.

Library also provides the special instruments and assistive tools for visually challenged students. The Library of the college is connected to the N-List programme of the MHRD (Ministry of Human Resource Development) 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. The library staffs ably supports to maintain and enhance the quality of library services. In order to maintain and improve the skills of its staff there is involvement with and training from DULS at regular interval.

### **Faculty Strength**

Sanctioned faculty: 173

### **Financial Allocation and Utilization**

Grant received: Rs. 56,16,00,000/-

Grant utilized: Rs. 49,60,80,706/

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## **VIVEKANANDA COLLEGE**

### **Major Activities and Achievements**

A two-day interdisciplinary national seminar was organized on 13-14 March 2019, “The Saga of Food – Politics, Aesthetics and Technology” by the Internal Quality Assurance Cell (IQAC) and the Department of Food Technology of the college. IQAC in collaboration with District Legal Services Authority conducted a Legal Awareness Course from 20 February-3 April 2019. Participants had the opportunity to interact with District Magistrates from all over Delhi and also visit Karkardooma Court. The IQAC in association with other departments of the college organized a series of For-the-Faculty-By-the –Faculty lectures. Parents Teachers meetings were organized for students of various courses to facilitate interaction among various stakeholders. Student Feedback Activity was organized for the Third year students on various aspects of campus life. Preliminary Internal Academic Audit was organized by former IQAC for several departments.

### **Students with Distinctions**

Shivangi Tyagi, B.Sc. (Hons.) Mathematics was awarded Rs.10,000/- as a meritorious student from Govt. of NCT of Delhi.

The College Archery Team secured 3<sup>rd</sup> place in the Inter College Tournament.

The College Hockey Team secured 3<sup>rd</sup> place in the Inter College Tournament.

The College Hockey Team secured 2<sup>nd</sup> place in the Inter College Hockey League.

### **Publications**

Jain, A., Mathur, P. (2019). Risk Assessment of Sulphite Exposure through Foods among Adolescents of Delhi, India. *Current Nutrition and Food Science*, 15(2). (Accepted for Publication).

Nandrajog, H. (2018). Tasting Tandoori Chicken in English: From Translation Impossible to Translation Is-possible', *Translation Impossible: The Ethics, Politics and Pragmatics of Radical Translation in South Asian Literatures*. Sanglap: *Journal of Literary and Cultural Inquiry*, 5(1), 78-91.

Nandrajog, H. (2018). Refugees of the Partition of India: Trauma and Strategies of Recovery. *The Psychological Impact of the Partition of India*, eds. Jain, S., & Sarin, A. New Delhi: Sage Publications. ISBN 978-93-528-0650-8(HB).

Sunil, S., Verma, S.K. (2018). Moral Socialization: The Role of Parents. *International Journal of Social Science Review*, 6(1), 165-170.

Seth, S., Bhatia, H., & Chadha, N.K. (2018). *Counselling Skills: Knowing Self and Others*. India: The Readers Paradise. (ISBN:978-93-85958-89-2)

### **Seminars Organised**

Vir, P., Suri, S. Two-day interdisciplinary National Seminar "The Saga of Food – Politics, Aesthetics and Technology" was organized on 13-14 March 2019 by IQAC and Department of Food Technology of Vivekananda College. It was supported by Indian Railways Catering and Tourism Corporation (IRCTC).

Paliwal, A., Mukherjee, C. Student Seminar on the topic "Women Narrators in Post 1960s Fiction" was organized on 30 October 2018 by the Department of English, Vivekananda College.

### **Seminar/Conferences Presentations**

Deepa Varshney presented a paper "Lok Sangeet va Shastriya Sangeet : Ek Adhyan' on 4-6 October 2018 at an International Seminar on "Global Folk Culture : Traditions" in Department of Dance, Faculty of performing Arts Banaras Hindu University, Varanasi.

Deepa Varshney presented a paper "Bhartiya Sangeet ki Lokpriyata mein Media, Print Media and Internet ki Bhoomika' on 28-30 January 2019 at an International Seminar on "Traditional Music Education and Career Options" organized by Bhatkhande Music Institute deemed to be University, Lucknow.

Hina Nandrajog presented a paper "From Indraprastha to Delhi: The Cityscape as Sediment of Memories", on 7-9 November 2018 at Urban Heritage and the Modern City at The IAFOR Conference on Heritage and the City – New York (HCNY 2018).

Hina Nandrajog presented a paper "A Shroud of Silence: Women in the Partition of 1947", on 16-17 November 2018 at International Conference on War Literature: Revisioning Across Genres (ICWLRG-2018) at The International Academic Association of Researchers in Humanities, IT, Engineering & Science (IAARHIES) in Patiala.

Renu Garg presented a paper "Prediction of Optimum Release Time Of Software Ensuring High Achievable Reliability "on 12 October 2018 at IEEE International Conference on Advances in Computing Communication Control and Networking.

Chaandreyi Mukherjee presented a paper on "Of Snowscapes and Sheep Quest: Analyzing the Motif of Travel in Haruki Murakami's *A Wild Sheep Chase*" in the National Conference on "A Cultural Perspective: Journey of Narratives and Narrativization of Journeys" on 20 April, 2018 organized by Shyam Lal College (M), University of Delhi.

Nalini Gandhi Kapoor presented a paper on ‘Human Interference in Sariska Tiger Reserve’ on 25 September, 2018 at 4<sup>th</sup> National Symposium on Environment : Green Technology for Environment in Deshbandhu College, University of Delhi.

Sukhneet Suri presented a paper on “Scope of Traditional Foods in Nutrigenomics” during a one day National Symposium on "Role of Traditional Foods in Ensuring Nutritional Security” on 12 September 2018 organized by Council for Promotion Research and Trade in Traditional Foods (CPRTTF) & Sri Venkateswara University, Tirupati.

### **Placement Details**

Number of Students Placed: 54

Number of Companies visited for campus recruitment: 05

### **Extension and Outreach Activities**

The college social outreach and community development committee launched ‘Project HUM – Bridge the Gap’. As the name suggests, through this project we hope to collaborate with the community members (more specifically community members of Jhilmil Colony) to reduce the gaps between the mainstream and the marginalized sections of our society primarily in the area of education as well as undertake civic initiatives.

### **Library Development**

Library collection has reached to 64105 books along with 47 periodicals, audio-visual material and e-resources. This year Library recorded approximate 45177 footfalls along with more than 34191 circulation transactions. 531 students benefitted from Book Bank scheme and 1474 books were issued during this period. “URKUND” Software for Plagiarism check is being used.

### **Faculty Strength**

Permanent : 44

Ad-hoc: 58

### **Financial Allocation and Utilization**

Grant sanctioned: UGC - Rs. 26,32,19,000./- ; Delhi Govt. - Rs. 70,00,000/-

### **Other Significant Information**

The college was accredited with Grade ‘A’ by the NAAC Peer Team.

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## **ZAKIR HUSAIN DELHI COLLEGE**

### **Major Activities and Achievements**

The Annual Day 2019 of the Zakir Husain Delhi College was held on 26 April 2018. Vice Chancellor, Lucknow University, S.P. Singh, graced the occasion as the Guest of Honour. The 12<sup>th</sup> Delhi College Lecture was delivered by Padma Shri Ram Bahadur Rai, President, Indira Gandhi National Centre for the Arts (IGNCA) on the topic “Gandhi Iss Samay” on 23 April 2019. Arts and Culture society has been very active with its six sub societies, winning many prestigious prizes on various platforms. Six cadets of NCC were selected for Amar Jawan Jyoti and Senior Under Officer Munish Rana was selected as the All India Guard Commander. Garden Committee won a total of 10 cups in the 61<sup>st</sup> Annual Flower Show of the University of Delhi held on 1 March 2019. National Service Scheme of the college organized Voters’ Awareness and EVM VVPAT demonstration.

## Honours/Distinctions

Dr. Abdul Wahid Farooqi, Department of Commerce, won 'Award for Professors with Excellence in Teaching in Higher Education' from South Asia Management Association; 'International Award for Teachers with Higher Potential' from Research Foundation of India; and 'Bharat Ratna Dr. Abdul Kalam Gold Medal Award' from Global Economic Progress Research Association.

Dr. Sangeeta Pandita, Department of Chemistry, was instrumental in signing of an agreement with Jaagrati Waste paper recycling services resulting in procurement of 55 rims of A4 size paper in exchange for 930 kg waste paper.

Abdul Hameed, Department of English, successfully developed a MOOC platform for Translation Studies course for the second year English Honours students as part of Digital Learning initiatives.

Dr. Sanjeev Kumar, Department of Political Science, became Life Member of European Association for South Asian Studies.

Dr. Aftab Alam, Department of Political Science, received Emerging Scholar Award during Global Studies Conference at University of Granada, Spain on 30 July 2018.

## Students with Distinctions

College had five University Toppers namely Abdul Bari M.A. Urdu (Final), Mohammad Rizwan Raza M.A. Arabic, Mohd. Nazim B.A. (H) Persian (III Year), Salim Akhtar B.A. (H) Arabic (III Year), and Anuradha Basu B.A. (H) Bengali (III Year).

## Publications

Abdul, M. (2018). "The Role of the Arabic Teachers of Old DELHI COLLEGE in Promotion of Urdu Language and Literature", in Shama-e- Hayat.

Anita, C., Rajni, A. (2019). Developmental Biology: Principles & Concepts Principles & Concepts, R. Chand and Co. Publishers, New Delhi.

Deepak, K. (2018). "अद्वैतत्वशुद्धिकासमालोचनात्मकअध्ययन", J.P. Publishing House, Delhi.

Imran, K. (2018). A Comprehensive dictionary of useful terms in library & information science.

Kumar, Sanjeev (2018).Rajniti Siddhant ki Samajh', Orient Blackswan, New Delhi.

Mohammed, A. (2019).Relocating Jane Eyre: Religion and Politics in Victorian Britain, Bookage Publisher, New Delhi.

Mukul, C. (2018). "Embodiment and Agency in HeisnamKanhailal'sDraupadi and Naked Protest at Kangla Fort" in Indian Association for Commonwealth Literature and Language Studies Journal, Vol. 4, pp. 88-97.

Ranjan, Ravi (2018) "Inter-disciplinarity Needs to be Revisited in University Curriculum", in The Times of India Higher Education: A Guide to Opportunities in India and Abroad -2019, Times of India Group Publication, New Delhi

Shabana, A. (2018). "Rudivaad" in Sanjeev Kumar (ed)., Rajniti Siddhant ki Samajh', Orient Blackswan, New Delhi.

Singh, R. (2018). "Subversion as Revenge: An Alternative Reading of Hegemonic Culture by Dalits in India", in Vibha S. Chauhan (ed)., Eight Faces of Revenge, Brill/Rodopi Publication, Netherland.

Tariq, S. M. (2018). "Children's Arabic Literature in India".

## **Journals**

Shraddha Adityavir Singh, joined as a Reviewer in the Editorial Board of Lapis Lazuli - an International Literary Journal in April 2019

Dr. Imran Khan, Associate Editor in Journal of Advanced Research in Library and Information Science and Editorial Board member of International Journal of Academic Research in Library & Information Science.

## **Research Projects**

Dr. Shirin Akhter started a Minor Research Project funded by ICSSR (2018), titled “The Manufacturing Sector’s Employment: Role of Factor Endowments and Factor Market Imperfections”.

Dr. Tripta Sharma became Co-Director in project funded by ICSSR (2018), titled, ‘Knowledge, Development and Politics in Post-Colonial India: Contestation in State, Market and Civil Society’.

## **Seminars Organized**

Department of Bengali organized a Faculty Development Programme under the guidance of Dr. Sharmistha Sen.

Department of Botany organized two workshops on “Art of Scientific Writing and Communicating Skills” and “Analytical Instrumentation Techniques” in association with M/s SV Instrument Analytical Pvt. Ltd., Gurgaon, from 16- 23 July 2018 and 6-7 October 2018 respectively.

English Literary Society organized one day International Students’ seminar on “Myth and Archetypes, and Their Workings in Drama”.

Gandhi Study Circle organized two seminar cum talks by Prof. Anand Kumar on ‘Relevance of Gandhi in the Contemporary World’, on 31 July 2018 and by Prof. Madhulika Banerjee on ‘Aaj ke Gandhi’, on 15 Feb 2019 respectively.

Northeast Students Counseling and Welfare Cell in collaboration with Department of Political science organized colloquium discussions by Professor Monirul Hussain of the Department of Political Science, Jamia Millia Islamia and Bonojit Hussain of Consortium of Asian Democracy Index (CADI), on “Assam: National Register of Citizens (NRC) and the Question of Citizenship”, on 20 September 2018.

Department of Persian organised two day International seminar on “Hind wa Iran me Dastan Nawisi”, from 25-26 April 2018.

Department of Sanskrit organized 10 days Sanskrit Sambhashan Shivir i.e. a workshop for language teaching learning and speaking, for students of B A. Hons. Sanskrit and BA Programme

## **Seminar/Conference Presentations**

Abdul Wahid Farooqi chaired a session in 1st International Digital Conference on modern Business Management and Social Science-2018 at Linton University College, Malaysia held in December 2018; presented a paper entitled “Digital Financial Inclusion India: an exploratory study” in International Multidisciplinary Conference organized by Clara’s College of Commerce, University of Mumbai in March 2019; and presented a paper entitled “Emerging Trends in Pedagogy of Commerce in University Level”, organized by L.S.R Mahila P.G. College, Mirzapur (UP) in September 2018.

Aftab Alam presented three papers at International Conference of Global Studies held at University of Granada, Spain; at 25th European Conference on South Asian Studies (ECSAS) at University of Paris, France; and at 60th Annual Convention of International Studies Association (ISA) at Toronto respectively. He was also awarded travel grant by prestigious institutions like IPSA, Australia, University of Paris, ISA, and Toronto, Canada.

Amir Jamal presented a paper in the National Seminar on "Arabic Scholars of Delhi and their Academic Contributions" held on 29-30 January 2019 at Department of Arabic, University of Delhi.

Deepak Kalia presented a paper titled “आत्मप्रबन्धनतंत्रस्य” at 17th World Sanskrit Conference, Vancouver, Canada in July 2018. For the same conference she also received Travel Grant from University Grants Commission (UGC).

Mohd. Qasim presented two research papers in two national seminars organized by the Department of Arabic, University of Delhi, and the Department of Arabic, Jamia Millia Islamia, New Delhi, respectively

Mukul Chaturvedi presented two papers entitled “Impossible witness: testimony in The Age of post truth” at IACLALS Annual Conference 2019 at University of Pondicherry and “Centering the Margin: Dalit Women’s testimonies and Indian historiography” in an International Conference at the Central University of Rajasthan, Ajmer respectively.

Ravi Ranjan delivered an invited Public Lecture on “Exploring Human Dignity as Human Rights: Perspectives from Gandhi and Ambedkar”, at Birla Institute of Technology and Science, Dubai Campus, in September 2018. He also presented paper on “Exploring State-Daughterhood Relationship in Modern India: A Study of Imbalanced Child at International Seminar organized by A N Sinha Institute of Social Sciences Patna in collaboration with Unicef and Tata-Cornell Institute, Cornell University, SDG’S Perspective, in April, 2019.

Sangeeta Pandita delivered lecture and demonstration on “Environment Friendly Innovation in Organic Chemistry Laboratory” in DST sponsored Faculty Development Programme on 8 August 2018 at Sri Venkateswara College.

Sanjeev Kumar was a key panellist at two International Conference on Gandhi in 2019. His major paper titled “The Politics of Village Reconstruction in Bhuj” was accepted for the 25th European Conference on South Asian Studies (ECSAS) held in Paris in July 2018.

### **Placement Details**

Five students of Career counseling and placement cell were selected for job in TPDDL and six in the WIPRO Technologies. More than 100 students got opportunity for the internship and job in the Job Fair-2019.

### **Extension and Outreach Activities**

NCC of the college organised an awareness drive regarding cashless transaction. The cadets also took up the work of cleaning the vicinity like Turkman Gate, the college premises under the *Swachh Bharat Abhiyan*. They also instructed and inspired the residents of the areas to keep their surroundings neat and clean. Total of 85 cadets participated in the International Day of Yoga. Cadets have also organised *charkha display* on 14-15 February 2019 where the volunteers displayed charkha and acquainted other students with the operation and importance *charkha*.

NSS undertook a cleanliness drive during DUSU election of 2018. A ‘Raddi Collection drive and Diwali Mela’ were organized on 30 October and 1 November respectively. The NSS volunteers attended the Mock Poll on 16 February 2018 organized by the District Election Officer to create awareness amongst the voters along with demonstration of EVM and VVPAT.

### **Library Development**

More than 10000 books added in book bank, Library Automation has been planned for next level by taking new initiatives like procuring new books in braille and QR coding for stakes.



### **Faculty Strength**

Permanent - 135

Ad-hoc - 82

### **Financial Allocation and Utilization**

Grant sanctioned: Rs. 6605.01 Lakhs

Grant utilized: Rs. 6545.21 Lakhs

### **Other significant information**

Different Departments have tried to sharpen the minds of its student members by bringing out their Magazines, namely *Awaaz* by Political Science Department, *Barnomala* by Bengali Department, *Fikr-e-Nauby* Urdu Department, *Gambol* by Physical Education Department, *Rambler* by English Department, *Rashmi* by Hindi Department, *Rise* by Economic Department, *Spectrum* by Science Departments, *Srishti* by Nature and Environment Club, and *World Com* by Commerce Department.

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## **ZAKIR HUSAIN POST GRADUATE EVENING COLLEGE**

### **Major activities and achievements**

Since the college was founded in 1958, the year 2018 was celebrated as the diamond jubilee year of the college. To mark the occasion on 22<sup>nd</sup> September 2019, a Diamond Jubilee function was celebrated as 'Foundation Day' in the Salamn Ghani Hashmi Auditorium in the college premises. Former Honourable President of India, His Excellency Dr Pranab Mukherjee was invited as the Chief Guest, and Professor Yogesh Tyagi, Vice Chancellor, University of Delhi graced the occasion as Guest of Honour. Professor Bidyut Chakrabarty, Vice-Chancellor, Vishwa Bharti University, West Bengal, and also an eminent personality in the field for Political Science, was invited to address a gathering of students and teachers on the topic "How to View Gandhi?" during the Mirza Mehmood Begg memorial lecture organized on 18 April 2019.

### **Publications**

Afzal, M. (2018). *Relocating Jane Eyre: Religion and Politics in Victorian Britain*. Delhi: Book Age.

Deo, T. (2018). *Journeying into the light: A study of Dalit women's Life Narratives*.

Kumar, S., Sayeed, M.T. (2018). *Dr. B.R. Ambedkar's Vision of India*. Delhi: Book Age publication.

Ranjan, P. (2018). Translated Satya Nadella's (CEO Microsoft) book *Hit Refresh* in Hindi. Delhi: Harper Collins.

Ranjan, P. (2019). *Paltu*. Delhi Rajkamal Prakashan.

Rupela, S.C. (2018). *Gazalnama Zindagi Ka*. Raj Surya Prakashan.

Singh V. (2019). *Dharmachinta Trans.(Thoughts of Dhamma)*. Gautam Prakashan.

Younus M.M., Muzzammil, M. (2019). *Bangla Sahitya: Path, Path-kendrikata O Pathak Pratikriya*. Vol. I. West Bengal: Shambhabi.

Younus M.M., Muzzammil, M. (2019). *Bangla Sahitya: Path, Path-kendrikata O Pathak Pratikriya*. Vol. II. West Bengal: Shambhabi.

### **Seminars organised**

C. Upendra Rao, Professor, School of Sanskrit and Indic Studies, Jawaharlal Nehru University, New Delhi, “Rasa and its application on Sanskrit Dramas in light of Natyashastra”, 25<sup>th</sup> September 2018.

Rudrashish Chakrabarty, Assistant Professor, Kirorimal College, University of Delhi, New Delhi, “Literary Criticism over the Ages”, 5<sup>th</sup> of October, 2018.

Harish Narang, Professor (retd.), Centre for English studies, Jawaharlal Nehru University, New Delhi, “Literatures of Diaspora”, On 2<sup>nd</sup> November, 2018.

Ramesh Chand Bhardwaj, Director, Gandhi Bhawan, Delhi University, “World Sanskrit Literature”, 25<sup>th</sup> February 2019.

Sharif Husain Qasemi, Former Head, Department of Persian, University of Delhi, New Delhi, “Persian Literature in India”, 5<sup>th</sup> March 2019.

### **Conferences organised**

“Text: Textuality and Readers Response”, 15-16 November 2018, Department of Bengali.

“[Re] Defining Marginalities”, 16<sup>th</sup> March 2019, Department of English.

“The Indian Constitution”, “Urban Governance in India”, 25-26 October 2018, Department of Political Science in association with Centre for Law and Policy Research and The Praja Foundation, Delhi.

'Adab ki tafheem', 12 November 2018, Department of Urdu.

“Sparsh Ganga: Conserving Water Resources through Community involvement”, 25 October 2018, Eco club.

### **Seminar/conference presentations**

Vikas Singh, The role of Buddhist ethics in modern Society, IATBU, Colombo, 2018 and Dr. BR Ambedkar's view on Buddhism, NIRCBSH, 2019, Kelamiya, Sri Lanka

Iqbal Sayeed, “Role of Agriculture for Rural Development in India since Independence Issues and Challenges” in 101<sup>st</sup> Annual Conference organised by Indian Economic Association at ISID Campus, New Delhi on 14-16 December 2018.

Al-Moohshina Muzzammil, “Signposts of Postcolonial literature : Selective study of Amitav Ghosh's works” in a two day National Seminar on “Impact of Globalization on Indian Languages and Literature”, organized by Marathi Section, M.I.L., Aligarh Muslim University, 11-12 February 2019

Al-Moohshina Muzzammil, “The concept of care for the aged in the family: A religious perspective” in two day International Seminar on “Family System in World Religions” organized by Al-Mustafa International University, Iran and Centre for Interfaith Understanding, Aligarh Muslim University, India, on 13-14 February 2019.

Munshi Md Younus, ‘the importance and relevance of Gandhiji's view on Modern Indian Language’ in a National Seminar, Gandhi Bhavan, University of Delhi on 24 October 2018.

Khursheed Ahmad, “Farsi aur Urdu me Tazkirah Nigari ki mushtarka rawayat” in two day national seminar organized by Dept. of Persian, University of Delhi in May 2018.

Rakesh Singh, “Ontology of language: A Philosophical study from Identify to difference (in Ashoka)”, in a National Seminar organized by Deptt. of Sanskrit, ZHDC(E), DU.

Praveen K Priyadarshi, “Governing Urbanising India” in an International Workshop, University Of Oslo, Oslo, Norway, 8-9 June 2017.

Shubhra Pant Kothari, “*Substantive Representation, Participation and Women: A Comparative Analysis*” in a one day seminar on Comparative Theory Today: Changes and Challenges held on 12 March, 2018 at DCRC (Developing Countries Research Centre), University of Delhi.

#### **Placement details**

Number and percentage of students placed: 45-50 (26%-29%)

Number of companies visited for campus recruitment: 14.

#### **Extension and outreach activities**

Cashless economy: NCC cadets along with Capt.(Dr.) M.M.Raheman organized an awareness drive in the vicinity of college. Areas like the New Delhi railway station, Ajmeri Gate, Turkman Gate and the colony beside the college were covered in this awareness drive. They educated people about the use e-currency to pay for their daily needs. Swachh Bharat Abhiyan: NCC Cadets under the leadership and guidance of Capt. (Dr.) M.M.Raheman took up the work of cleaning the vicinity of the college under the Swachh Bharat Abhiyan. They performed cleanliness drive in the colony area beside the college, Turkman gate area, backside area of the college continuously for a whole week keeping the area clean and also inspiring the residents of the areas to keep their surroundings neat and clean. Blood Donation Camp: Students’ union in association with Indian Red Cross Society organized a Blood Donation Camp on 11 February 2019.

#### **Library development**

Total 90 Text Books added in Text Book Section and 1413 books are added in General section. One Thermal printer has been installed in the Library for printing Bar Code and Spine labels. One Computer Lab Cum Teacher’s Reading Room with full infrastructure i.e. Laptop and Projector with 24 sitting capacity is specially developed in the Library.

#### **Faculty strength**

Total sanctioned faculty: 48

#### **Financial allocation and utilization**

Grant received: Rs.2424.74 lakhs

Grant utilized: Rs.2224.25 lakhs

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### **UNIVERSITY HOSTELS/HALLS**

#### **AMBEDKAR-GANGULY STUDENTS’ HOUSE FOR WOMEN**

##### **Major Activities and Achievements**

During the reporting period, various cultural activities were held in the Hostel such as Fresher’s welcome, Diwali, Christmas, Lohri & Holi celebrations. Independence Day and Republic day were celebrated by hoisting the National Flag, singing the National anthem and distribution of sweets & snacks among the residents and staff. Swachhata Abhiyan was organised on 2<sup>nd</sup> October 2018 wherein residents and staff participated in the activity. Orientation Programme cum Fresher party was organised on 1<sup>st</sup> October, 2018. A lecture was conducted by Shri Sreekumar Rajagopalan, a professional behavioural trainer on “Strength based career selection” for fresher residents. Students were oriented towards personality development and life skills.

The annual function of the Hostel was celebrated on 2<sup>nd</sup> March, 2019 with pomp & show. Dr. Payal Mago, Joint Dean (Colleges) of University of Delhi was the Chief Guest & Dr. Charu Malhotra, Indian Institute of Public Administration was the Guest of Honour.

## **Facilities**

PWD friendly washroom, Ramp for PWD, Common Room (T.V. & Projector), Computer Room (Air-conditioned), Library (Air-conditioned), Mess (Air-conditioned), Gymnasium (Cardio-vascular equipment), Laundry Room (fully automatic washing machines), Solar Water Heater, Fridge, microwave and hotplate on each wing of each floor, Water purifiers, Cleaning staff for cleaning of residents' rooms along with common areas, Extensive lawns for morning and evening walk, Badminton court, CCTV surveillance.

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## **ARAVALI POST GRADUATE MEN'S HOSTEL**

### **Major Activities and Achievements**

Aravali Hostel organised Annual Cultural event "MILANGE 2018 & MILANGE 2019" along with the Saramati Post Graduate Men's Hostel on 12<sup>th</sup> April 2018 & 30<sup>th</sup> March 2019. In view of the fact that Aravali hostel has substantial number of residents from almost all the states in India along with some students from foreign countries, special emphasis was given to showcase the rich Indian cultural tradition through students' performances. In addition, the hostel also celebrated New Year Eve and national festivals. The national flag was unfurled in the presence of hostel administration, residents, and staff on Independence Day and Republic Day.

### **Committees**

Every year the Hostel administration constitutes several committees such as disciplinary committee, cultural committee, mess committee, sports committee for the smooth functioning of the hostel.

### **Facilities**

Hostel has a recreation room and common reading room with several newspapers and magazines. The hostel also provides indoor sports facilities such as table tennis, chess, carom-board etc. The hostel also provides several sport gears for cricket, football, badminton and many other sporting events. Hostel is equipped with modern Wi-Fi facility to provide smoother and faster internet service to the residents. Hostel has installed CCTV with 5 cameras at the important places for security and surveillance.

### **Other Significant Information**

Hostel has a double occupancy Air-conditioned guest room and a normal utility room for visiting guests and parents of the residents.

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## **CENTRAL INSTITUTE OF EDUCATION HOSTEL**

### **Major Activities and Achievements**

The Central Institute of Education has two hostels, Shree Bhawan for women and Shakti Bhawan for men, established in 1950. The hostels accommodate students from B.Ed., M.Ed., M.Phil. and Ph.D. programmes. There is one visitor's room with TV and reading facilities. Apart from the general books of reading shelves, periodic magazines and regular newspaper facilities are also available for the residents. Sports facility is provided to the students through departmental arrangements. The residents celebrate different festivals in the Hostel and give their feed back in form of face to face discussions, debates, and Nukaad Nataks. The Hostel Mess is maintained by the Hostel Residents. Every month a new committee is formed with two men and women residents. They prepare the Hostel menu in consultation with the Warden/Resident Tutor.

The Hostel organises periodic meetings to discuss issues related to awareness and general maintenance. During the year, Hostel and Department jointly organised a Blood Donation Camp in association with Indian Red Cross Society, New Delhi.

## **Committees**

Apart from the Hostel Mess Committee, there are other committees including Cleanliness and Grievance Committee, Discipline Committee, Mess Committee.

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## **D. S. KOTHARI HOSTEL**

### **Major Activities and Achievements**

Alumni Meet - The second Alumni meet of the hostel was organised on 30<sup>th</sup> March, 2019 and was attended by 70 alumni. Sufi ghazals and Songs were performed by Nizami Bandhu. The Chief Guest was Prof. Dinesh Singh, Ex-Vice –Chancellor, University of Delhi.

Annual Function – Annual function was organised on 31<sup>st</sup> March, 2019 by the Students' Union of D.S. Kothari Hostel. The Chief Guest was Sri Srinivas, ABVP National Joint Organizing Secretary, Delhi. The function was attended by more than 600 students, hostel authorities from across 15 hostels, 13 colleges and many Departments of Delhi University. The annual day events had songs performed by Novjot. The Chief Guest delivered annual day speech regarding hostel life.

Fresher's Function - After admission of the students, a fresher party/function has been organised every year by the students' union of D.S. Kothari Hostel. The new residents are welcomed by the members of the students' union.

The festivals celebrated in the hostel are: -

Independence Day, Id-ul-Zuha, Mahatma Gandhi Birthday, Dussehra, Diwali, Christmas Day, New Year, Lohri, Republic Day, Saraswati Pooja, Holi

### **Committees**

Anti-Ragging Committee, Anti-Smoking Committee, Anti-Ragging Squad Committee, Sexual Harassment Committee, North Eastern Committee, Committee for Maintaining Peace and Security In Holi Period, Mess Committee.

### **Facilities**

Common Room, T.V. Room, Mess, Laundry, Computer Room, Union Room-Cum-Reading Room, Gym room, Guest room.

First Aid Box

First aid Kit is also available outside hostel office, under the supervision of the hostel Union.

PWD Friendly Resources

There are 5% sanctioned seats for PWD Students in this hostel. Annual charges and monthly charges are exempted for PWD Students and 50% of Mess fee is charged from PWD Students. The following facilities have been provided to PWD Residents. Other facilities include Wheel Chair, PWD toilets and Wash Room, Ramp.

Computer Screen Reader Software with headphone facility for visually challenged residents

Security with CCTV Camera: - 8 CCTV Cameras have been installed in different sites of the hostel. Six Security guards have been engaged (two each in three shifts) for the security of the hostel.

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## GEETANJALI HOSTEL

### Major Activities and Achievements

2018-2019 was an eventful year. Geetanjali Hostel celebrated Independence Day and Republic Day in which the flag was hoisted by the Provost. Swachhta Abhyaan was carried out on October 2<sup>nd</sup>. Festivals were celebrated with the usual fervor and glory. The girls participated in various sports events throughout the year. Mridang, the annual cultural fest saw stupendous performances, including plays, classical dances and songs by residents. The hostel gave a befitting farewell to Mr. Rajinder Singh, the security guard, on his retirement. The environmental club took up various activities such as painting competition and best-out-of-waste. With the help of the engineering branch, Geetanjali constructed a safe, dedicated area for making compost. The literary club organised various competitions including Colloquy, their discussion forum, and in one of the discussions, mental health issues were discussed at length. Literary club also initiated a blog where residents and others can post their thoughts and experiences (<https://geetanjali.home.blog/>).

### Committees

Anti-racial and North-East committee, Anti-ragging Committee, Internal Complaints Committee, Internal Disciplinary Committee.

### Facilities

Sanitary Pad dispensing machine, well-equipped gym and sport equipment, television in common room, music system with speaker, computer facility, library with some books for general reading, refrigerators, induction cook top for each floor, reading Room, and microwave

### Other Significant Information

The hostel is secure with sufficient lighting on the premises and four CCTV cameras at relevant areas. Four security guards rotate duties to maximize efficiency. The hostel has posters on anti-ragging, anti-substance abuse and ethical eating habits in the mess.

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## GWYER HALL

### Major Activities and Achievements

Gwyer Hall is the oldest & one of the most prestigious men's Post Graduate Hostels of the University of Delhi. There exists a unique and distinctive feature in this hostel where students and faculty members live and dine together. Over the years Gwyerians have made their presence felt in all walks of life in India and abroad. The hostel takes necessary steps to ensure that the spirit and rich heritage that have survived over the years of its existence continue to flourish.

Like in previous years, there was a great rush for admission in this Hall during the current academic year 2018-2019 and about 711 applications were received for Master's, LL.B., CIC, M.Phil., Ph.D., B.Ed. M.Ed. programmes of the University. The Admission Committee, after careful scrutiny, filled up the vacant seats attached to various departments of the University. The admission was granted strictly on the basis of merit.

The Gwyer Hall participated in the 61<sup>st</sup> Annual Flower Show organised by the University of Delhi and won cash reward and awarded prizes (Kali Charan Agarwal Award), for the year 2018-2019. The Hall residents organised various functions to mark and celebrate on the occasion like Buddha Purnima, Independence Day, Diwali, Christmas, New Year, Republic Day, Saraswati Puja, Id-UI-Fitar, Holi and B.R. Ambedkar Birthday Anniversary. Gwyer Hall organised many periodical speeches by the eminent Professors of different fields on varied topics.

## **Facilities**

Extensive use of the Digital Library took place in the year 2018-2019 as 13 computers were purchased out of the Special Grant given by the Hon'ble Member of Parliament (Mr. Manoj Tewari) and installed in the Digital Library. One Projector with screen has been installed in the Common Room and the residents derive its full benefits. Four big lawns were levelled and new grass of high quality has been grown which has added beauty to the lawns.

In order to augment hygienic facilities, steps have been taken to get the overhead water tanks cleaned from time to time. Measures were also taken to ensure cleanliness all over the Hall including Kitchen, Pantry, Store and Toilets on priority. Toilet and ramp for PWD students have been constructed. Seven rooms, Gymnasium and Reading accessible for PWD students.

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## **INTERNATIONAL STUDENTS' HOUSE**

### **Major Activities and Achievements**

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 2018-19, 70 foreign students from 28 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 Delhi University hostel system.

The House celebrated Independence Day, Deepawali, Christmas, New Year's Day, Republic Day, Lohri, Swami Vivekananda Jayanti, Id-ul-Fitr, Id-ul-Zuha, Saraswati Pujan, and Holi with gusto and enthusiasm. These occasions created opportunity for the International Students to know about the Indian Culture and the Indian students to be aware about the foreign cultures.

The International Students' House organised an activity "Swachhta Pakhwada" 1st to 15th September, 2018 to promote "Swachh Bharat Abhiyan" which is being organised by Govt. of India. A Fresher's welcome party coupled with inauguration of the House Union was arranged on 19<sup>th</sup> January, 2019. The International Students' House Union organised the ISH Sports Competition Intra and Inter Hostel in the month of February-March, 2019. The ISH celebrates its 55<sup>th</sup> year and Annual fest termed Milestone "19" on 9<sup>th</sup> March, 2019 with great enthusiasm and joy. Students and artists from various countries including India, Sri Lanka, Fiji, Ethiopia, Cambodia, Indonesia, Nepal, Mauritius, Afghanistan, Tibet, Thailand, Egypt, Kenya, Congo, Guyana, Japan and Nigeria entertained the audience with culturally rich programs.

### **Committees**

Anti-Ragging Committee, North Eastern Committee, Sexual Harassment Committee, Anti-Smoking Committee, Holi Committee, Disciplinary Committee, Swachhta Abhiyan Committee

### **Facilities**

Common Room, Computer Room, Reading Room, Washing Room, Canteen, Gymnasium, Guest Room, Sports, Wi-Fi, Telephone, Security/CCTV, Geysers, Inverter, Water Cooler.

### **Other Significant Information**

The new additions include one Washing Machine, one HP LaserJet M1005 MFP Printer for computer room, 10 chairs for the Computer Room and 18 for Dinning Hall. Several new equipment including box for sports items, speaker, automatic cycle, gym mat besides sundry items such as a weights spring stretch, dumbbells, rod, skipping rope and cattle bell etc. for the gymnasium have been purchased and are being used by the students.

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## INTERNATIONAL STUDENTS' HOUSE FOR WOMEN

### Major Activities and Achievements

Established on June 3, 2002 the multicultural character of the International Students' House for Women is central to all the activities organised 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. The House strives for unity in diversity.

A number of programmes were organised in the House/ Hostel in the past year. Independence Day, which was celebrated with flag hoisting, sweets and special breakfast, generated feelings of patriotism among the students and staff. Other events celebrated over the year were Id-ul-Fitr, Freshers' Party, Diwali; Christmas and New Year; Lohri; Republic Day and Sports' Day. The Annual Guest Night was organised on the theme 'Women of the World'. The programme was attended by dignitaries from various embassies and officials from the University of Delhi and previous Provosts of ISHW. ISHW won the best Mali Award and best Lawn Award in Annual Flower Show. International Women's Day marked the second year of celebration of this important day in the Hostel with Dr. Payal Mago, Joint Dean of Colleges, University of Delhi and Mr. Sediqullah Seher, Education Attaché, Embassy of Islamic Republic of Afghanistan who graced the occasion and enlightened the girls with their very informative talk. The presentation by students from five countries on the status of women in their respective countries along with cultural programme was a delight, followed by a collective dinner. Holi was celebrated with a splash of colours. Farewell Party was given to the outgoing residents who relived and narrated the wonderful time they had spent in the House.

### Committees

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.

### Facilities

ISHW has various facilities for its student residents namely:

98 well-furnished rooms containing single bed, almirah, mattress, curtain, study table, chair etc.

Visitors' Lobby, Committee Room, Medical Room, Dining Hall, Library, Reading Room, Lounge room (with LCD projector, big screen and sound system), Badminton court, Internet Room, TV room, Gymnasium. There are Pantries on every floor. The bathrooms are equipped with solar heaters for hot water through geyser & solar system. The House provides Wi-Fi facility to its residents. Entire Hostel complex is equipped with Wi-fi connections.

RO water coolers are available on all the floors. Fully equipped pantry with electric heater, microwave, water dispenser, electric kettle & two fridges, one for vegetarian residents & another for non-vegetarian residents, on all the four floors.

The residents' clothes are washed by a laundry attendant in the laundry room which consists of five fully automatic washing machines. Separate ironing room is also available.

Complete Gymnasium with modern equipment and fully air-conditioned mess.

To deal with shut down or power cut electricity, Genset facility is provided in the entire complex of the hostel.

Round the clock security is present for the students.

The whole hostel campus is CCTV – enabled to provide a secure environment to its residents.

Bus Shuttle is available from ISHW Complex to the University (North) Campus from morning till evening.



First Aid Kit is available. Residents are member of WUS Health Centre, (DU).

### **Other Significant Information**

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.

Regular interaction of the Provost with her staff to address their grievances, if any.

Gender sensitization session with the Hostel staff by the Provost.

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.

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## **JUBILEE HALL**

### **Major Activities and Achievements**

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.

Jubilee Hall celebrated its Annual Function “Jubilation” and many distinguished alumni took part along with other renowned personalities to grace the occasion.

To keep harmony and its basic character of “Unity in Diversity”, Hall celebrated all festivals viz Saraswati Pooja, Holi, Id, Independence Day, Deepawali and Christmas with lot of gaiety and enthusiasm.

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## **MANSAROVER HOSTEL**

### **Major Activities and Achievements**

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, the Provost, Prof. Hirapaul Gangnegi unfurled the flag in the presence of Dr. Sanjoy Roy (Warden), Mr. Saifuddin Ahmad (Resident Tutor), hostel residents, staff and guests. The festivals like Dushera, Diwali, Holi, Eid, Saraswati Puja, Christmas, Gandhi Jayanti and Ambedkar Jayanti were also celebrated in the hostel premises.

The hostel Residents' Union has organised fresher party and New Year's Day inviting alumni and other guests.

The hostel Residents' Union has organised hostel alumni meet and farewell on 30<sup>th</sup> March 2019.

The residents of the hostel participated in various out-door and indoor games during the year.

### **Committees**

Managing Committee, Student Union, Mess Committee, Anti-Ragging Committee, Disciplinary Committee, SC/ST/OBC Committee, North Eastern Committee, Anti-Smoking Committee, Sexual Harassment Committee

## Facilities

The Hostel provides many facilities to its residents to make their stay comfortable.

Dining Hall, Reading Room, Computer/ Internet Room, Common Room, News Paper Room, Gymnasium, Guest Room, Visitor's Room, Cafeteria, Laundry, Telephone/Fax/Photostat, Generator Room, Health Centre

## Other Significant Information

Renovated the entire gym room; Constructed a security guard room; Installed new exhaust fans in entire hostel washroom; Installed a new water cooler for the residents.

Tube light of ground floor's corridor, dining hall, mess etc. changed into LED tube lights.

The Hostel made a compost pit which converts organic material, such as yard waste and kitchen scraps, into nutrient-rich material that improves the soil and fertilizes plants.

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## MEGHDOOT HOSTEL

### Major Activities and Achievements

The Meghdoot Hostel observed a number of activities and enthusiastic innovations in the academic year 2018-19. Some of them are listed as follows:

Celebration of Independence Day, Swachta Abhiyan on Gandhi Jayanti, Dussehra Celebration, Celebration of Diwali, Celebration of Christmas and Fresher's Party, Election of New Students Union, Celebration of Lohri, Pongal and Bihu, Republic Day Celebration, Saraswati Pooja on the occasion of Basant Panchmi and Holi.

### 61<sup>st</sup> Annual Flower Show, 2019,

Meghdoot Hostel participated in the 61<sup>st</sup> Annual Flower Show held on 1<sup>st</sup> March 2019 by giving different entries of flowers. Our Hostel has been awarded with **The Treasurer's Cup** and **The M.M. Beg Cup**.

### 26<sup>th</sup> Annual Cultural Night-MEGHYAMINI 2019

The most awaited function of the hostel i.e. the Annual Cultural Night MEGHYAMINI-19 was organised by the Provost and Students Union. **Mrs. Durga Shakti Nagpal, IAS** was invited as the chief guest, **Mrs. Geeta Rani Verma, IPS** and **Prof. Neeta Sehgal** attended the event as the Guests of Honour. The function was presided by the Provost, Prof. Veena Agrawal, Warden, Mrs. Shashi Rani, and Resident Tutor, Dr. Sunita Singh. All residents participated enthusiastically. All the staff and residents were present to cherish the beautiful night, cultural performances and fashion show. A Disk Jockey and special dinner was followed after this.

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## NORTH EASTERN STUDENTS' HOUSE FOR WOMEN

### Major Activities and Achievements

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. Sports activities were full of games and fun for 3 days. Fresher and farewell parties were enjoyed by the residents with enthusiasm and emotions. 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**, with North-east cultural music, dance, dresses and drama.

### **Committees**

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.

The Students Welfare Association (SWA) has the following sub-committees

Mess Committee, Cultural Committee, Sports Committee.

### **Facilities**

The hostel provides the following facilities to its residents:

Well-furnished common room with LED TV and music system; Laundry room equipped with eight washing machines; each floor has a Hot plate, refrigerator, microwave and water dispenser/cooler; Air-conditioned Computer room with printer and internet facility; Air-conditioned Reading room with latest magazines and Newspapers.

Major RO system for drinking water; Bus, plying to the university on an hourly basis from Mondays to Saturdays.

### **Other Significant Information**

Round the clock hot water supply is through solar power heating.

Efforts are made to maintain as much greenery as possible in and around the hostel premises. Organic manure used in the garden is prepared by the staff through mulching and composting. Chemical fertilizers are fully avoided.

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## **POST GRADUATE MEN'S HOSTEL**

### **Major Activities and Achievements**

P.G. Men's Hostel was inaugurated on 24.10.1975 with 100 single bedded rooms. It has grown significantly in terms of facilities such as air-conditioned computer lab with internet, Wi-fi, gym with motorized treadmill, laundry and also semi-automatic washing machines on each floor, canteen, photocopy outlet, two badminton courts and recreation hall. Ajit Singh Yadav Memorial debate organises every year. Major Indian festivals like Holi, Diwali, Eid, Xmas, New Year and also Annual Function and Sports meet of the hostel etc. celebrated every year in the hostel. Republic Day and Independence Day are also observed in the hostel every year.

### **Committees**

Common Room Committee, Cultural Committee, Health & Hygiene Committee, Sports Committee, Mess Committee, Anti Raging and Disciplinary Committee, Holi Committee, Anti-Smoking Committee.

### **Facilities**

TV/Common Room, Laundry, Air-Conditioned Computer Lab with internet and Wi-Fi facilities, Air-Conditioned Library and Reading Room, Newspaper/Magazine Room, Gym with motorized treadmill, Two badminton Courts,

Photocopy outlet, Visitor Room

## **Other Significant Information**

Air-conditioned Guest (Parent) Room

Scroll Board of the Chairmen, Provosts, Wardens and Resident Tutor.

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## **RAJIV GANDHI HOSTEL FOR GIRLS**

### **Major Activities and Achievements**

The Rajiv Gandhi Hostel for Girls (RGHG) is a very spacious and beautiful Hostel situated at Dhaka Hostel Complex, Mukherjee Nagar, Delhi-110009. The Hostel building was constructed by University of Delhi with the financial assistance from Ministry of Development of North Eastern Region (MDONER/NEC) and Ministry of Tribal Affairs (MTA). The Hostel Complex is by and large a self-sustained residence for women students (post graduate and research scholars) from North East and other parts of India pursuing the education in University of Delhi. The Hostel is divided into 8 clusters, each independent in terms of water supply, rest rooms etc. Each cluster has four floors having a pantry facility in alternate floors, used by the residents for some emergency food preparation.

Independence Day, Freshers' welcome party, Diwali, Christmas, Lohri, Republic Day, Sarsawati Pooja, Holi were celebrated by the residents.

The most awaited function of the hostel i.e. "RAGAAZ" was organised on 8<sup>th</sup> March, 2019. Sh. Gyan Prakash Upadhyaya, IAS Additional Chief Secretary, HRD Department, Government of Sikkim was the Chief Guest. The intention behind it was to encourage the hostellers to come together and be united. On this day, cultural programme is organised. The cultural aspects of different states of India were demonstrated by the excellent dance performances by the residents.

Hostel proved its mettle by participating in the 61<sup>st</sup> Annual Flower Show held on 1<sup>st</sup> March, 2019 by giving different entries of flowers and lawn and has been awarded, Lady Shri Ram College Cup at the event.

### **Committees**

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.

### **Facilities**

Pantry Facility, Water Facility, Store room facility, Common Room, Visitor Room, Medical Facility, Membership with Health Centre, Provision of counseling service, Sports Facility Indoor Game, Outdoor Games, Mess and Dining Hall, Reading Room, Library Room, CCTV Camera.

There are 386 rooms on twin sharing basis. The Hostel can accommodate 772 students. All rooms are spacious and ventilated for the comfortable stay of the Hostel residents. All rooms have ceiling fans. Each resident is provided with beds, one built wardrobe/almirah, book rack mounted on the wall. Every room has a mirror.

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## **SARAMATI POST GRADUATE MEN'S HOSTEL**

### **Major Activities and Achievements**

Saramati Hostel organised Annual cultural event "MILANGE 2018& MILANGE 2019" along with the Aravali Post Graduate Men's Hostel on 12<sup>th</sup> April 2018 & 30<sup>th</sup> March 2019. In view of the fact Saramati

hostel has substantial number of residents from north eastern states of India, special emphasis was given to showcase the north eastern cultural tradition. In addition, the hostel also celebrated New Year evening and national festivals like Independence Day, Republic Day and national flag was unfurled in presence of hostel residents and staffs.

### **Committees**

Every year Hostel administration constitutes Disciplinary Committee, Cultural Committee, Mess Committee, and Sports Committee for smooth functioning of various hostel facilities.

### **Facilities**

Hostel has recreation room and common reading room with several newspapers and magazines. The hostel provides gymnasium and sports facilities for indoor games such as table tennis, chess, carom-board etc. The hostel also provides several sport gears for cricket, football, badminton and several other sporting events. Hostel is equipped with modern 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.

### **Other significant Information**

Hostel has a double occupancy Guest Room and Guest house equipped with the Air Conditioner and Heat Convecter. Both of the facilities are open for the visiting guests and parents of the residents.

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## **SOCIAL WORK HOSTEL**

### **Major Activities and Achievements**

The Department has its own hostel. The foundation stone of this hostel was laid by Mrs. Durgabai Deshmukh, Chairman, Central Social Welfare Board, Government of India on 25<sup>th</sup> July, 1962. The Hostel became functional from 16<sup>th</sup> July, 1966. Being an attached hostel within the Department premises, it adds to the development of overall personality of the social work students and helps in reinforcing their professional elements. In the current academic session, thirty-five women and fifty-four men students (total: 89) are being accommodated in forty-five rooms. The occupancy details, as on March, 2019, are given below:

### **Infrastructure and facilities**

The campus is conceived as a disabled friendly space. Its entrance has been modified and fitted with ramps to suit the special needs of the disabled. There are forty nine rooms; a students managed Mess with well-furnished kitchen and dining facilities; three drinking water points with reverse osmosis filtering facilities; an Air Conditioned common room; two sick/isolation rooms (one in each wing); a meeting room; office rooms; Warden's residence; lush green lawns; groves and gardens; a bore well in addition to municipal water supply; CCTV surveillance in addition to security services; TV with DTH services in the common room; and a number of newspapers, magazines and periodicals. DSW Hostel has its own website <http://dswh.du.ac.in> which provides information about the hostel. There is a provision for security in the Department campus throughout the day. For the hostel, there is an additional security during the night time. Two security guards provide their services in two shifts daily. Fire safety measures are also in place.

### **Augmentation in Infrastructure and services**

An inverter has been procured and necessary electric wiring has been carried out as a contingency measure during power failure in addition to the existing one. At present, this facility is being extended to the hostel common room, dining hall, kitchen and a few office rooms. The number of CCTV cameras has increased to twelve. Some perennial plants such as palms, hibiscus and rose have been procured and planted in the

hostel premise adding to the existing greenery in the campus. In addition to the existing facilities, further facilities and services have been added to the department hostel in the present academic year 2018-2019.

Creation of reading rooms in each wing of the hostel

Repair/ replacement of the dining tables in the hostel mess

Installation of three new washing machines to replace the old ones in the hostel

Purchase of flower pots for the beautification of the hostel

A formal request has been sent to the University of Delhi for creation of Rain Water Harvesting System in the hostel

Provision of PNG line (gas line) in the hostel mess

### **Hostel Club Union**

Hostel Club Union is a democratically elected body of the residents of the Department of Social Work Hostel. This student's body promotes academic/intellectual, cultural and recreational activities amongst the hostel residents. The Hostel Club Union held its first general body meeting in September, 2018. With the support of the hostel staff and participation from the hostel residents, the following major initiatives were taken by the Hostel Club Union. It facilitated occasions such as fresher's party to welcome the budding social workers and a farewell ceremony to bid adieu to the aspiring change makers. With an aim to strengthen camaraderie amongst the residents, the Hostel Club Union celebrated various festivals such as Eid, Diwali, Lohri, Holi, and Christmas, among others.

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## **UNDER GRADUATE HOSTEL FOR GIRLS**

### **Major Activities and Achievements**

The hostel organises various events to keep the students engaged in productive activities. This year, "Know Your Rights Workshop" was held on 13<sup>th</sup> April, 2018 to sensitize the youth about their basic rights. Mr. Avinash Tiku, Speaker & Full time International faculty at Art of Living, delivered a talk on "MIND MATTERS" on 16<sup>th</sup> January, 2019, which was very much appreciated by the students. On 18<sup>th</sup> February, 2019, a condolence meeting was held to mourn the loss of over 40 CRPF jawans in the service of country. Miss Ilma Afroz, IPS Officer Batch of 2018, delivered a talk on the theme "Think equal, build smart, innovate for change" on 8<sup>th</sup> March, 2019 and students participate in "Poster Making Competition" on the topic of "भारतीयनारी" on the occasion of International Women's Day.

The hostel endeavors to create an atmosphere conducive to learning and enjoyment. All major festivals were celebrated in the hostel, starting with Independence Day, The Freshers' party, Diwali, Christmas Day, Lohri, Holi. Annual Sports Day was organised on 31<sup>st</sup> March, 2019. The hostel participated in the Delhi University Flower show held on 22.02.2019 and won several prizes.

### **Committees**

During the 2018-19 period, the following committees were constituted:

Anti-Smoking Committee, Anti-Sexual Harassment Committee, Anti-Ragging Committee, Racial Discrimination Committee, Nodal Officer for North-East, Holi Committee, Nodal Officer for Tobacco-Free Campus, Students' Advisor, Cultural Committee, Literary Society, Alumni Committee, Library Committee, Disciplinary Committee, Sports Committee, Block Representatives

## **Facilities**

The hostel boasts of several modern facilities, including air-conditioned Common Room, Computer Lab, Two Reading Rooms, Gymnasium, Sports Room, Library, Visitors' room, Medical room with medical facilities, including a daily nurse and doctor's visits thrice a week. The hostel also has a well-ventilated Dining Hall

Other facilities include: Laundry Room, Tuck-shop, Badminton Court, Basket Ball Court, Table Tennis court, two TV Rooms

## **Other Significant Information**

Lush green lawns and flower beds greet the residents. The walls are decorated with pictures, keeping alive India's rich heritage. For the students' security, CCTV cameras are installed in common areas and at the gates. There are disabled friendly washrooms and ramps. All fees are collected online. The mess serves four meals a day, including facility for packed lunch. The hostel adopts green practices, including waste segregation, composting of garden waste, switchover to eco-friendly LED lighting, minimal paper usage, etc.

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## **UNIVERSITY HOSTEL FOR WOMEN**

Established in the year 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.

### **Major Activities and Achievements;**

It has always been in the tradition of UHW to hold several functions and celebrations. The following celebrations were organised in 2018-2019; All festivals such as Diwali, Lohri, Saraswati Puja and Holi were celebrated in the hostel.

15<sup>th</sup> August 2018, Independence Day, 2<sup>nd</sup> October 2018, Swachha Bharat Abhiyaan, 26<sup>th</sup> January 2019, Republic Day,

### **Committees**

Discipline Committees (Anti Ragging, Anti-Smoking, North Eastern), Cultural Committee, Mess Committee, Cleanliness Committee

### **Facilities**

Gym, Common Room, Reading Room, Sick Room, Union Room, Installation of Laundromat is in process, Common Refrigerator for residents, Common Television for Residents

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## **V. K. R. V. RAO HOSTEL**

### **Highlights of major activities and achievements**

Every year the residents of the hostel celebrate national days including Independence Day, Republic Day and Gandhi Jayanti with gaiety and fervor. Independence Day and Republic Day are celebrated with the hoisting of tri-colour flag to instill a culture of national integration while Gandhi Jayanti gives emphasis on cleanliness through Swachh Bharat Abhiyan. The residents of the hostel celebrate various festivals covering Diwali, Holi, Lohri, Saraswati Puja, and Christmas Eve with 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. SPIC MACAY program has almost become a regular feature in the hostel. This year

Ustad Shahid Parvez gave a recital in the Common Room of the hostel. The hostel annual cultural extravaganza, Umang, the most sought-after program is celebrated with pomp and show every year.

### **Committees**

The hostel has constituted a Mess Committee, Cultural Committee including Anti Ragging Committee, Grievance Committee and a Committee for the Welfare of North East & Kashmiri Students.

### **Facilities**

Medical Facilities, Mess and the Dining Hall, Canteen, Computer and Internet & Wi-fi Facilities, Common Room, Sports / Gym, Book Bank, Laundry Services, Reading room, Visitors' room, Hostel Security, PwD Friendly resources

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## **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. Prof. (Ms.) Minni Sawhney was looking after the administration of the Hostel during the period from 1<sup>st</sup> April, 2018 to 31<sup>st</sup> March, 2019.

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, and Washing machine.

The resident celebrates the various festivals like Diwali, Christmas, Holi, New Year etc. The Mess is run by residents on co-operative basis. However, the infrastructure for the Mess facility is being provided by the Hostel.

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## **ANNUAL ACCOUNTS FOR THE YEAR 2018-19**

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	<b><u>A. University of Delhi</u></b>
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8	Balance Sheet
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**UNIVERSITY OF DELHI**  
**BALANCE SHEET AS AT 31<sup>st</sup> MARCH, 2019**

Particulars	Schedule	Amount in ₹	
		Current Year	Previous Year
<b>SOURCES OF FUNDS</b>			
<b>CORPUS/CAPITAL FUND</b>	1	(16300485154)	-----
<b>DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS</b>	2	7679054711	6812347938
<b>CURRENT LIABILITIES &amp; PROVISIONS</b>	3	29980071347	27366821395
<b>TOTAL</b>		<b>21358640904</b>	<b>34179169333</b>
<b>APPLICATION OF FUNDS</b>			
<b>FIXED ASSETS</b>			
Tangible Assets	4	3702203920	1302350394
Intangible Assets		1398111	2190247
Capital Works-in-Progress		122872429	4065825877
<b>INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS</b>	5	883083000	883083000
<b>INVESTMENT – OTHERS</b>	6	-----	-----
<b>CURRENT ASSETS</b>	7	13743862296	12067138607
<b>LOANS, ADVANCES &amp; DEPOSITS</b>	8	2905221148	3223753863
<b>CORPUS/CAPITAL FUND</b>		-----	12634827345
<b>TOTAL</b>		<b>21358640904</b>	<b>34179169333</b>
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		

**UNIVERSITY OF DELHI**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>st</sup> MARCH, 2019**

Particulars	Schedule	Current Year	Previous Year
<b>Amount in ₹</b>			
<b>INCOME</b>			
Academic Receipts	9	920718581	1079933933
Grants / Subsidies	10	5265660407	5268907887
Income from Investment	11	52734780	38074029
Interest Earned	12	57188754	2907044
Other Income	13	83506316	67821287
Prior Period Income	14	0	0
Increase in Stock		0	0
<b>TOTAL (A)</b>		<b>6379808838</b>	<b>6457644180</b>
<b>EXPENDITURE</b>			
Staff Payments & Benefits (Establishment expenses)	15	6681419208	5207492367
Academic Expenses	16	562118283	565335417
Administrative and General Expenses	17	908848745	860614848
Transportation Expenses	18	10080	1402609
Repairs & Maintenance	19	199746212	157267464
Finance costs	20	156089	469669
Depreciation	4	442567008	351441789
Expenditure on Grants, Subsidies etc.	21	145980806	336578401
Prior Period Expenses	22	1298098067	0
Decrease in Stock		3295165	5925876
<b>TOTAL (B)</b>		<b>10242239664</b>	<b>7486528440</b>
<b>Balance being excess of Income over Expenditure/ (Expenditure over Income) ( A- B )</b>		<b>(3862430826)</b>	<b>(1028884260)</b>
<b>Transferred to / from Designated Fund</b>			
<b>Balance being Surplus/(Deficit) carried to Capital Fund</b>		<b>(3862430826)</b>	<b>(1028884260)</b>
Significant Accounting Policies	23		
Contingent Liabilities and Notes to Accounts	24		

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

<b>SCHEDULE 1 - CORPUS/CAPITAL FUND</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous year</b>
Balance at the beginning of the year	(12634827345)	(11813457121)
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	55298928	116788962
(b) Non-Plan Accounts (salary/Recurring grant)	79959314	65898724
(c) Non-Plan Accounts(Capital Assets)	<u>30384385</u>	-----
Add: Assets Purchased out of Earmarked Funds		
(a) Miscellaneous Accounts	15096229	6220593
(b) Other Earmarked Funds	<u>4654189</u>	<u>4534471</u>
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution		
Add: Assets Donated/Gifts Received	785	778
Add: Assets of Project Closed	14486860	14399432
Add: Other Additions	<u>-----</u>	<u>-----</u>
	14487645	14400210
Less: W.D.V. of Assets disposed off during the year	(3107673)	(328924)
Add: Excess of Income over expenditure/(Excess of Expenditure over Income)		
transferred from the Income & Expenditure Accounts	(3862430826)	(1028884260)
<b>Balance at the year end</b>	<b>(16300485154)</b>	<b>(12634827345)</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**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
<b>A.</b>						
<b>a) Opening balance</b>	<b>761858184</b>	<b>5898798</b>	<b>854122893</b>	<b>5190468063</b>	<b>6812347938</b>	<b>5895188592</b>
b) Additions during the year	-----	-----	2810714	-----	2810714	----
c) Income from investments made of the funds	18855085	292123	47681099	210212810	277041117	242861575
d) Accrued Interest on Investments/Advances	30991794	80933	10933759	117205086	159211572	157323421
e) Interest on Savings Bank a/c	464085	9878	1128617	6423043	8025623	5875732
f) Other additions (specify nature)	348270720	0	1121477	478725498	828117695	921667343
<b>Total(A)</b>	<b>1160439868</b>	<b>6281732</b>	<b>917798559</b>	<b>6003034500</b>	<b>8087554659</b>	<b>7222916663</b>
<b>B.</b>						
<b>Utilization/Expenditure towards objectives of funds</b>						
ii) Capital Expenditure	15096229	-----	-----	4654189	19750418	10755064
ii) Revenue Expenditure	307126420	1062	9327231	72294817	388749530	399813661
<b>Total(B)</b>	<b>322222649</b>	<b>1062</b>	<b>9327231</b>	<b>76949006</b>	<b>408499948</b>	<b>410568725</b>
<b>Closing balance at the year-end (A-B)</b>	<b>838217219</b>	<b>6280670</b>	<b>908471328</b>	<b>5926085494</b>	<b>7679054711</b>	<b>6812347938</b>
<b>Represented by</b>						
<b>Cash And Bank Balances</b>						
Current Accounts	12912664				12912664	4456292
Saving Accounts	81548712	1070912	49274569	293527941	425422134	306345189
Investments	18000000	300000	319800000	544900000	883000000	883000000
Fixed Deposit	678377540	4800000	528380000	4884268480	6095826020	5372127605
Interest accrued but not due	31669234	80933	10933759	117558392	160242318	170068082
Shares	-----	-----	83000	-----	83000	83000
Other Loan & Advances	12683056	-----	-----	27118432	39801488	36875468
Loan from UDF to Misc.	-----	-----	-----	30000000	30000000	30000000
LC Margin	-----	-----	-----	-----	-----	-----
Electricity Deposits	-----	-----	-----	9409500	9409500	9409500
TDS's refundable	3112818	28825	-----	20885969	24027612	1592838
Maintenance grant a/c	(86805)	-----	-----	(1583220)	(1670025)	(1610036)
<b>Total</b>	<b>838217219</b>	<b>6280670</b>	<b>908471328</b>	<b>5926085494</b>	<b>7679054711</b>	<b>6812347938</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**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.Receipts)	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)	2275052	360677	147897	43448	2422949	404125	59489	2422949	344636	2767585
2	Shri Sri Ram Chair in physics (298399)	7063201	2606333	493039	176749	7556240	2783082	3712	7556240	2779370	10335610
3	Shri Shankar Lal Chair in Chemistry (298402)	7898119	2888132	525413	221070	8423532	3109202	3382	8423532	3105820	11529352
4	IFC Chair in Faculty of Mgmt. studies (298683)	13863470	5322299	1184687	220380	15048157	5542679	6509	15048157	5536170	20584327
5	SP Jain Advanced Mgmt. Research (299041)	1959645	644971	119176	50957	2078821	695928	856	2078821	695072	2773893
6	Pt. Man Mohan Nath Dhar (298956)	1265507	458026	80612	38046	1346119	496072	1283	1346119	494789	1840908
7	Professorship in Economics (298741)	12971931	4914771	904015	334149	13875946	5248920	5072	13875946	5243848	19119794
8	Publication of Orient Insect (299416)	550899	184067	34818	16247	585717	200314	818	585717	199496	785213
9	DU Endowment Fund (299733)	235517371	53524324	16957040	3381003	252474411	56905327	2560348	252474411	54344979	306819390
10	Pt. Man Mohan Krishan Kaul (299880)	1527132	530545	79212	58592	1606344	589137	958	1606344	588179	2194523
11	Book Grant RTL (300228)	275170522	75737383	19866894	4847888	295037416	80585271	6492568	295037416	74092703	369130119
12	DU Amway Professorship in Enter. Dev. (300705)	11437894	3921978	785588	248749	12223482	4170727	4720	12223482	4166007	16389489
13	Cluster Innovation Centre Corpus Fund	100582419	30939249	7556684	2355957	108139103	33295206	80016	108139103	33215190	141354293
14	MHRD IPR CHAIR	488	6488	0	247	488	6735	0	488	6735	7223
15	State Bank of India Scholarship (Advacne RPA Scholarship) (46397)	0	0	2810714	136394	2810714	136394	107500	2703214	136394	2839608
<b>Total</b>		<b>672083650</b>	<b>182039243</b>	<b>51545789</b>	<b>12129876</b>	<b>723629439</b>	<b>194169119</b>	<b>9327231</b>	<b>723521939</b>	<b>184949389</b>	<b>908471328</b>

- Notes
- 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.
  - 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)
  - 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.

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

<b>SCHEDULE 3 - CURRENT LIABILITIES &amp; PROVISIONS</b>	<b>Current year</b>	<b>Amount in ₹ Previous Year</b>
<b>A. CURRENT LIABILITIES</b>		
1. Deposits from staff	-----	-----
2. Deposits from students	-----	-----
3. Sundry Creditors		
a) For Goods	12277710	25943604
b) Others	-----	-----
4. Deposit-others (including EMD, Security Deposit)	378068	378068
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS)		
a) Other Bodies Transaction	4314496	5321264
b) Duties & Taxes	799134	1258258
6. Other Current Liabilities		
a) Salaries	-----	-----
b) Receipts against Sponsored Projects	1645776335	1499877620
c) Receipts against Sponsored Fellowships & Scholarships	86932037	95731206
d) Unutilized Grants	6076211611	5587750339
e) Amount refundable to UGC	24433545	18198383
f) Grants in advance	-----	-----
g) Other funds	114388107	163053237
h) Other liabilities	8330586	11580180
<b>Total (A)</b>	<b>7973841629</b>	<b>7409092159</b>
<b>B. Provisions</b>		
1. For Taxation	-----	-----
2. Gratuity	1371782081	1246794419
3. Superannuation Pension	19335915063	17828303630
4. Accumulated Leave Encashment	1211502217	873230725
5. Trade Warranties/Claims	-----	-----
6. Others (Specify)/Expenses Payable	87030357	9400462
<b>Total (B)</b>	<b>22006229718</b>	<b>19957729236</b>
<b>Total (A+B)</b>	<b>29980071347</b>	<b>27366821395</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**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 (298650)	456024994		213743578	669768572	132483537	537285035	
2	IASE Scheme A/c (Educ) (295853)	902824		1650000	2552824	1464038	1088786	
3	Research Scheme A/c (SDC)( 546386)	708806754		381173735	1089980489	272023323	817957166	
4	B.R.A. Project A/c (298264)	55122811		44417696	99540507	37605722	61934785	
5	Young Research Scientist A/c (298593)	234458111		52851924	287310035	102579571	184730464	
6	CEMDE\Bio-Diversity Park (DDA)	44562126		82108230	126670356	83890257	42780099	
<b>Total</b>		<b>1499877620</b>		<b>775945163</b>	<b>2275822783</b>	<b>630046448</b>	<b>1645776335</b>	
<b>Previous Year (2017-18)</b>		<b>1386557463</b>		<b>663890765</b>	<b>2050448228</b>	<b>550570608</b>	<b>1499877620</b>	

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 31-03-2019**

**SCHEDULE 3(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS**

Sr. No	Name of Sponsor	Amount in ₹					
		Opening Balance As on 01.04.18		Transactions During the year		Closing Balance As On 31.03.19	
		3	4	5	6	7	8
1	2	CR.	DR.	CR.	DR.	CR.	DR.
1	CSIR Fellowship (298413)	40566438		21274588	25680460	36160566	
2	UGC Fellowship (298560)	9079186		8993027	10877094	7195119	
3	Other Bodies Scholarship (298707)	40884136		54238378	55417184	39705330	
4	CSIR Fellowship (SDC) (545269)	1530869		1862907	3351956	41820	
5	UGC Fellowship (SDC) (545258)	3670577		230153	71528	3829202	
<b>Total</b>		<b>95731206</b>	<b>0</b>	<b>86599053</b>	<b>95398222</b>	<b>86932037</b>	<b>0</b>
<b>Previous Year (2017-18)</b>		<b>73570373</b>	<b>31192212</b>	<b>143446769</b>	<b>90093724</b>	<b>95731206</b>	

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).

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**SCHEDULE 3(c ) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS**

Amount in ₹

	Current Year	Previous Year
<b>A. Plan grants: Government of India</b>		
Balance B/F		
Add: Receipts during the year		
<b>Total(a)</b>	0	0
<b>Less: Refunds</b>		
<b>Less: Utilized for Revenue Expenditure</b>		
<b>Less: Utilized for Capital Expenditure</b>		
<b>Total (b)</b>	0	0
<b>Unutilized carried forward (a-b)</b>	0	0
<b>B. UGC grants Plan</b>		
Balance B/F	5587750339	5721197188
Add: Receipts during the year	285864306	260850724
<b>Total(c)</b>	5873614645	5982047912
<b>Less: Refunds</b>	0	
<b>Less: Utilized for Revenue Expenditure</b>	27507904	277508611
<b>Less: Utilized for Capital Expenditure</b>	55298928	116788962
<b>Total (d)</b>	82806832	394297573
<b>Unutilized carried forward (c-d)</b>	<b>5790807813</b>	<b>5587750339</b>

**UNIVERSITY OF DELHI**  
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Amount in ₹

<b>C. UGC Grants non-Plan(for salary and recurring )</b>		
Add: Receipts during the year	5312400000	5057298000
<b>Total(e)</b>	5312400000	5057298000
<b>Less: Refunds</b>	0	0
<b>Less: Utilized for Revenue Expenditure</b>	5232440686	4991399276
<b>Less: Utilized for Capital Expenditure</b>	79959314	65898724
<b>Total (f)</b>	<b>5312400000</b>	<b>5057298000</b>
<b>Unutilized carried forward (e-f)</b>	0	0
<b>D. Grants from UGC for Capital Assets</b>		
Balance B/F	0	0
Add: Receipts during the year	321500000	0
<b>Total(g)</b>	321500000	0
<b>Less: Refunds</b>		
<b>Less: Utilized for Revenue Expenditure</b>	5711817	0
<b>Less: Utilized for Capital Expenditure</b>	30384385	0
<b>Total (h)</b>	36096202	0
<b>Unutilized carried forward (g-h)</b>	285403798	0
<b>Grand Total(A+B+C+D)</b>	<b>6076211611</b>	<b>5587750339</b>

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

**UNIVERSITY OF DELHI**

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**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 31.03.2019	W.D.V. as at 31.03.2018
1	Land		19716892	0	0	19716892		0	19716892	19716892
2	Site Development/Minor work		0	0	0	0		0	0	0
3	Buildings	5%	662328304	3942953448	0	4605281752	1298098067	165359184	3141824501	662328304
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%	195983775	24707001	1152829	219537947		43907589	175630358	195983775
9	Scientific & Laboratory Equipment	40%	136734599	91844915	8042	228571472		91428589	137142883	136734599
10	Office Equipment		0	0	0	0		0	0	0
11	Audio Visual Equipment	50%	727982	1372248	10270	2089960		1044980	1044980	727982
12	Computers & Peripherals	40%	165311232	29397654	1790435	192918451		77167381	115751070	165311232
13	Furniture, Fixtures & Fittings	25%	80275999	8905224	96034	89085189		22271297	66813892	80275999
14	Sports Equipment	50%	14386	0	0	14386		7193	7193	14386
15	Vehicles	25%	1015860	0	1917	1013943		253486	760457	1015860
16	Lib. Books & Scientific Journals	50%	36931365	43520167	48146	80403386		40201692	40201694	36931365
17	Small Value Assets		0	0	0	0		0	0	0
18	Work of Art		3310000	0	0	3310000		0	3310000	3310000
<b>Total (A)</b>			<b>1302350394</b>	<b>4142700657</b>	<b>3107673</b>	<b>5441943378</b>	<b>1298098067</b>	<b>441641391</b>	<b>3702203920</b>	<b>1302350394</b>
19	<b>Capital Work in Progress (B)</b>		<b>4065825877</b>	<b>0</b>	<b>3942953448</b>	<b>122872429</b>		<b>0</b>	<b>122872429</b>	<b>4065825877</b>
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 31.03.2019	W.D.V. as at 31.03.2018
20	Computer Software	40%	2164416	133481	0	2297897		919159	1378738	2164416
21	E-journals	25%	0	0	0	0		0	0	0
22	Patents	25%	25831	0	0	25831		6458	19373	25831
<b>Total (C)</b>			<b>2190247</b>	<b>133481</b>	<b>0</b>	<b>2323728</b>		<b>925617</b>	<b>1398111</b>	<b>2190247</b>
<b>Grand Total (A+B+C)</b>			<b>5370366518</b>	<b>4142834138</b>	<b>3946061121</b>	<b>5567139535</b>	<b>1298098067</b>	<b>442567008</b>	<b>3826474460</b>	<b>5370366518</b>
<b>Previous year (2017-18)</b>			<b>5514294271</b>	<b>207842960</b>	<b>328924</b>	<b>5721808307</b>	<b>0</b>	<b>351441789</b>	<b>5370366518</b>	

**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.

**UNIVERSITY OF DELHI**

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**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 on Related to prior period	Depreciation for the year	W.D.V. as at 31.03.2019	W.D.V. as at 31.03.2018
1	Land		0	0	0	0		0	0	0
2	Site Development/Minor work		0	0	0	0		0	0	0
3	Buildings	5%	254821749	682672498	0	937494247	205936831	36577871	694979545	254821749
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%	94000962	569080	0	94570042		18914008	75656034	94000962
9	Scientific & Laboratory Equipment	40%	93570123	52351770	0	145921893		58368757	87553136	93570123
10	Office Equipment		0	0	0	0		0	0	0
11	Audio Visual Equipment	50%	447936	29820	0	477756		238878	238878	447936
12	Computers & Peripherals	40%	150575030	284824	1386720	149473134		59789254	89683880	150575030
13	Furniture, Fixtures & Fittings	25%	29145637	61454	0	29207091		7301773	21905318	29145637
14	Sports Equipment	50%	0	0	0	0		0	0	0
15	Vehicles	25%	309059	0	0	309059		77265	231794	309059
16	Lib. Books & Scientific Journals	50%	6880595	2001980	0	8882575		4441288	4441287	6880595
17	Small Value Assets		0	0	0	0		0	0	0
18	Work of Art		1310000	0	0	1310000		0	1310000	1310000
<b>Total (A)</b>			<b>631061091</b>	<b>737971426</b>	<b>1386720</b>	<b>1367645797</b>	<b>205936831</b>	<b>185709094</b>	<b>975999872</b>	<b>631061091</b>
19	<b>Capital Work in Progress (B)</b>		<b>804296182</b>	<b>0</b>	<b>682672498</b>	<b>121623684</b>		<b>0</b>	<b>121623684</b>	<b>804296182</b>
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 on Related to prior period	Amortization for the year	W.D.V. as at 31.03.2019	W.D.V. as at 31.03.2018
20	Computer Software	40%	0	0	0	0		0	0	0
21	E-journals	25%	0	0	0	0		0	0	0
22	Patents	25%	10890	0	0	10890		2723	8167	10890
<b>Total (C)</b>			<b>10890</b>	<b>0</b>	<b>0</b>	<b>10890</b>		<b>2723</b>	<b>8167</b>	<b>10890</b>
<b>Grand Total (A+B+C)</b>			<b>1435368163</b>	<b>737971426</b>	<b>684059218</b>	<b>1489280371</b>	<b>205936831</b>	<b>185711817</b>	<b>1097631723</b>	<b>1435368163</b>
<b>Previous year (2017-18)</b>			<b>1535404943</b>	<b>116788962</b>	<b>0</b>	<b>1652193905</b>		<b>216825742</b>	<b>1435368163</b>	

UNIVERSITY OF DELHI

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019

**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\Sal e during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2019	W.D.V. as at 31.03.2018
1	Land		19716892	0	0	19716892	0	19716892	19716892
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	330875224	0	0	330875224	16543761	314331463	330875224
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%	61406025	11270206	1152829	71523402	14304680	57218722	61406025
9	Scientific & Laboratory Equipment	40%	17494682	10132704	8042	27619344	11047738	16571606	17494682
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	229621	848832	10270	1068183	534092	534091	229621
12	Computers & Peripherals	40%	11275124	13390832	403715	24262241	9704896	14557345	11275124
13	Furniture, Fixtures & Fittings	25%	43849884	4190168	96034	47944018	11986005	35958013	43849884
14	Sports Equipment	50%	14340	0	0	14340	7170	7170	14340
15	Vehicles	25%	706799	0	1917	704882	176221	528661	706799
16	Lib. Books & Scientific Journals	50%	28284171	39993091	48146	68229116	34114558	34114558	28284171
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		0	0	0	0	0	0	0
<b>Total (A)</b>			<b>513852762</b>	<b>79825833</b>	<b>1720953</b>	<b>591957642</b>	<b>98419121</b>	<b>493538521</b>	<b>513852762</b>
19	<b>Capital Work in Progress (B)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Sr.No	Intangible Assets	Rate of Dep	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sal e during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2019	W.D.V. as at 31.03.2018
20	Computer Software	40%	1877236	133481	0	2010717	804287	1206430	1877236
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	9991	0	0	9991	2498	7493	9991
<b>Total (C)</b>			<b>1887227</b>	<b>133481</b>	<b>0</b>	<b>2020708</b>	<b>806785</b>	<b>1213923</b>	<b>1887227</b>
<b>Grand Total (A+B+C)</b>			<b>515739989</b>	<b>79959314</b>	<b>1720953</b>	<b>593978350</b>	<b>99225906</b>	<b>494752444</b>	<b>515739989</b>
<b>Previous year (2017-18)</b>			<b>546751235</b>	<b>65898724</b>	<b>328924</b>	<b>612321035</b>	<b>96581046</b>	<b>515739989</b>	

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**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 31.03.2019	W.D.V. as at 31.03.2018
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	0	0	0	0	0	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%	0	5491145	0	5491145	1098229	4392916	0
9	Scientific & Laboratory Equipment	40%	0	11822710	0	11822710	4729084	7093626	0
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	0	329511	0	329511	164756	164755	0
12	Computers & Peripherals	40%	0	12107203	0	12107203	4842881	7264322	0
13	Furniture, Fixtures & Fittings	25%	0	0	0	0	0	0	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%	0	633816	0	633816	316908	316908	0
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		0	0	0	0	0	0	0
<b>Total (A)</b>			<b>0</b>	<b>30384385</b>	<b>0</b>	<b>30384385</b>	<b>11151858</b>	<b>19232527</b>	<b>0</b>
<b>19</b>	<b>Capital Work in Progress (B)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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 31.03.2019	W.D.V. as at 31.03.2018
20	Computer Software	40%	0	0	0	0	0	0	0
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	0	0	0	0	0	0	0
<b>Total (C)</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total (A+B+C)</b>			<b>0</b>	<b>30384385</b>	<b>0</b>	<b>30384385</b>	<b>11151858</b>	<b>19232527</b>	<b>0</b>
<b>Previous year (2017-18)</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**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 31.03.2019	W.D.V. as at 31.03.2018
1	Patents & Copyrights	25%	25831	0	0	25831	6458	19373	25831
2	Computer Software	40%	2164416	133481	0	2297897	919159	1378738	2164416
3	E-Journals	25%	0	0	0	0	0	0	0
<b>Total</b>			2190247	133481	0	2323728	925617	1398111	2190247
<b>Previous year (2017-18)</b>			<b>3192579</b>	<b>449223</b>	<b>0</b>	<b>3641802</b>	<b>1451555</b>	<b>2190247</b>	



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SCHEDULE 4( C) (I) PATENTS AND COPYRIGHTS	Op. Balance	Addition	Gross	Amortization	Net Block 20.....	Net Block 20.....
Amount in ₹						
<b>A. Patents Granted</b>						
1. Balance as on 31.03.19 of Patents obtained in 20018-19 (Original Value - Rs.../-)	----	----	----	----	----	----
2. Balance as on 31.03.19 of Patents obtained in 2018-19 (Original Value - Rs.../-)	----	----	----	----	----	----
3. Balance as on 31.03.19 of Patents obtained in 2018-19 (Original Value - Rs.../-)	----	----	----	----	----	----
4. Patents granted during the Current Year	----	----	----	----	----	----
<b>Total</b>	----	----	----	----	----	----
<b>Particulars</b>	<b>Op. Balance</b>	<b>Addition</b>	<b>Gross</b>	<b>Patents Granted/Rejected</b>	<b>Net Block 20.....</b>	<b>Net Block 20.....</b>
<b>A. Patents Pending in respect of Patents applied for</b>						
1. Expenditure incurred during 20.....	----	----	----	----	----	----
1. Expenditure incurred during 20.....	----	----	----	----	----	----
1. Expenditure incurred during 20.....	----	----	----	----	----	----
<b>Total</b>	----	----	----	----	----	----
<b>C. Grand Total (A+B)</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 31.03.2019	W.D.V. as at 31.03.2018
1	Land		0	0	0	0		0	0	0
2	Site Development/Minor work		0	0	0	0		0	0	0
3	Buildings	5%	76631331	3260280950	0	3336912281	1092161236	112237552	2132513493	76631331
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%	40576788	7376570	0	47953358		9590672	38362686	40576788
9	Scientific & Laboratory Equipment	40%	25669793	17537731	0	43207524		17283010	25924514	25669793
10	Office Equipment		0	0	0	0		0	0	0
11	Audio Visual Equipment	50%	50424	164085	0	214509		107255	107254	50424
12	Computers & Peripherals	40%	3461079	3614795	0	7075874		2830350	4245524	3461079
13	Furniture, Fixtures & Fittings	25%	7280478	4653602	0	11934080		2983520	8950560	7280478
14	Sports Equipment	50%	46	0	0	46		23	23	46
15	Vehicles	25%	1	0	0	1		0	1	1
16	Lib. Books & Scientific Journals	50%	1766595	891280	0	2657875		1328938	1328937	1766595
17	Small Value Assets		0	0	0	0		0	0	0
18	Work of Art		2000000	0	0	2000000		0	2000000	2000000
<b>Total (A)</b>			<b>157436535</b>	<b>3294519013</b>	<b>0</b>	<b>3451955548</b>	<b>1092161236</b>	<b>146361320</b>	<b>2213432992</b>	<b>157436535</b>
<b>19</b>	<b>Capital Work in Progress (B)</b>		<b>3261529695</b>	<b>0</b>	<b>3260280950</b>	<b>1248745</b>		<b>0</b>	<b>1248745</b>	<b>3261529695</b>
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 31.03.2019	W.D.V. as at 31.03.2018
20	Computer Software	40%	287181		0	287181		114872	172309	287181
21	E-journals	25%	0	0	0	0		0	0	0
22	Patents	25%	4950	0	0	4950		1238	3712	4950
<b>Total (C)</b>			<b>292131</b>	<b>0</b>	<b>0</b>	<b>292131</b>	<b>0</b>	<b>116110</b>	<b>176021</b>	<b>292131</b>
<b>Grand Total (A+B+C)</b>			<b>3419258361</b>	<b>3294519013</b>	<b>3260280950</b>	<b>3453496424</b>	<b>1092161236</b>	<b>146477430</b>	<b>2214857758</b>	<b>3419258361</b>

Note : The additions during the year include additions from :

Gifted	785
Project Close	14486860
Misc. Accounts Fund	15096229
Other Earmarked Fund	4654189
Work in progress transfer to Building	3260280950
<b>Total</b>	<b>3294519013</b>

**UNIVERSITY OF DELHI**  
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<b>SCHEDULE 5 - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
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)	-----	-----
<b>Total</b>	<b>883083000</b>	<b>883083000</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**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
<b>Total</b>		<b>883083000</b>	<b>883083000</b>

Note : The Total in this sub schedule will agree with the total in Schedule 5.

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**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

<b>SCHEDULE 6 - INVESTMENT -OTHERS</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
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)	----	----
<b>TOTAL</b>	----	----

**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

	Amount in ₹	
<b>SCHEDULE 7 - CURRENT ASSETS</b>	<b>Current Year</b>	<b>Previous Year</b>
<b>1. Stock</b>		
a) Stores and Spares	----	----
b) Loose Tools	----	----
c) Publication	----	----
d) Laboratory chemicals, consumables and glass ware	----	----
e) Building material	----	----
f) Electrical material	----	----
g) Stationery	7236511	9362094
h) Water supply material	----	----
i) Liveries	----	----
j) Drugs and Medicines	10235191	16531904
k) Answer Sheet	5127131	----
<b>2. Sundry Debtors :</b>		
a) Others Outstanding for a period exceeding six months	----	----
b) Others	8941820	----
<b>3. Cash and Bank Balance</b>		
<b>a) With Scheduled Banks :</b>		
-In Current Accounts	102222076	66031191
-In Term Deposit Accounts	12388074281	11082529870
-In Savings Accounts	1221087686	891760948
<b>b) With non-Scheduled Banks :</b>		
-In Term Deposit Accounts	----	----
-In Savings Accounts	----	----
<b>c) Cash Balance in hand (including cheques\drafts) :</b>	937600	922600
<b>4. Post Office Savings Accounts</b>	----	----
<b>TOTAL</b>	<b>13743862296</b>	<b>12067138607</b>

**Note : Annexure "A" shows the details of Bank Accounts**

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

**Annexure "A"**

		Amount in ₹	
<b>I</b>	<b>Current Account</b>	<b>Current Year</b>	<b>Previous Year</b>
1	B R Amedkar Centre General Fund A/c	236000	8000
2	ICICI Bank A/c	2907408	3685476
3	SBI Law Centre II	134017	134017
4	SBI MG I	14774149	6826915
5	SBI MG II	92990	10092507
6	SBI MG III	25567528	1160304
7	SDC Examination A/c	35580154	20073893
8	SDC General Fund A/c	5394655	15884699
9	Sponsored Project Bank A/c	1088787	902824
10	Plan Current A/c	3533724	2806264
11	Current A/cs of Earmarked Fund	12912664	4456292
		<b>102222076</b>	<b>66031191</b>
<b>II</b>	<b>Savings Bank Accounts</b>		
1	External Candidate Cell A/c	1203472	897165
2	NCWEB A/c	16502238	12658956
3	SBI Departmental Receipt A/c	7044196	2149027
4	SBI General Fund A/c	22311911	92087485
5	SBI Medical Reimbursement A/c	1761872	310382
6	Sponsored Project Bank A/c	325521253	296041608
7	Sponsored Fellowship and Scholarship	88714879	98598341
8	Plan Savings A/c	39737770	31341187
9	Savings A/cs of Earmarked Fund	425422134	306345189
10	CPF Account refundable to UGC	106089	4025
11	IDBI Bank A/c	790661	4438342
12	ICICI Bank A/c (Online Fees)	4954220	46889241
13	Recurring A/c	84649474	-----
14	ICICI Bank A/c-(Exam)-004318	3268779	-----
15	Capital Assets-36467	136690389	-----
16	Salary Account-11307	62408349	-----
		<b>1221087686</b>	<b>891760948</b>
<b>III</b>	<b>Term Deposit Accounts</b>		
1	FDR from Earmarked Fund(including margin money)	6095826020	5372127604
2	FDR from UGC Refundable A/c	24169694	18072925
3	FDR from ACBR A/c	918073	918073
4	FDR from Maintenance Grants	1230000000	1215000000
5	Sponsored Project Bank A/c(including margin money)	1135737205	1024108838
6	Sponsored Fellowship and Scholarship	25000000	25000000
7	FDR From Plan A/c (including margin money)	3867423289	3419302430
8	FDR From ICICI Bank A/C	9000000	8000000
		<b>12388074281</b>	<b>11082529870</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31-03-2019**

<b>SCHEDULE 8 - LOANS, ADVANCES &amp; DEPOSITS</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
<b>1. Advances to employees (Non-interest bearing)</b>		
a) Salary	-----	-----
b) Festival	70762	736612
c) Medical Advance		
d) Leave Travel Concession	7974556	13308426
e) Other (to be specified)	-----	-----
<b>2. Long Term Advances to employees (Interest bearing)</b>		
a) Vehicle Loan/Conveyance/Computer	421940	807020
b) Home Loan/HBA	910650	1405975
c) Others (to be specified)	-----	-----
<b>3. Advances and other amounts recoverable in cash or in kind or for value to be received</b>		
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	38468897	34662473
g) Other Advance out of Maintenance Grant A/c	515617891	611078101
h) Other Advances out of Sponsored Projects	134207222	126829527
i) Advance from Plan A/c	1725113078	2026199559
j) Others	48078224	1640866
<b>4. Prepaid Expenses</b>		
a) Insurance	-----	-----
b) Other Expenses	34044622	13813289
<b>5. Deposits</b>		
a) Telephone	-----	-----
b) Lease Rent	-----	-----
c) Electricity	20805300	20805300
d) AICTE, if applicable	-----	-----
e) DESU (Security)	4795	4795
f) Others	202373	202373
<b>6. Income Accrued:</b>		
a) On Investments from Earmarked/Endowment Funds	160242318	170068082
b) On Investments from ACBR/ UGC Refundable A/c	-----	-----
c) On Investments from UGC Refundable A/c	33725	121433
d) On Investments from Sponsored Projects	49972233	53199322
e) On Investments from Sponsored Fellowship and Scholarship	3217158	2132865
f) On Investments from Plan	139931084	118473352
g) On Investments from MGie( ICICI, SDC )	3578835	4517867
h) On Loans and Advances	-----	-----
i) Others (includes income due unrealized)	712558	2271284
<b>7. Other - Current Assets receivable from UGC/sponsored projects</b>		
a) Debit balances in Sponsored Projects	-----	-----
b) Debit balances in Sponsored Fellowships & Scholarships	-----	-----
c) Grants Receivable	-----	-----
d) Other receivables	137927	342
<b>8. Claims Receivable</b>	-----	-----
<b>TOTAL</b>	<b>2905221148</b>	<b>3223753863</b>

**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 31-03-2019**

<b>SCHEDULE - 9 ACADEMIC RECEIPTS</b>	<b>Current Year</b>	<b>Amount in ₹ Previous Year</b>
<b>FEES FROM STUDENTS</b>		
<b>Academic</b>		
1. Tuition fee	11047415	15562124
2. Admission Fee	8597053	2428539
3. Enrolment fee	47170557	19578022
4. Library Admission fee	7605517	1155149
5. Laboratory fee	274235	29508
6. Sports and Athletic Association Fee	10984310	7093785
7. Computer Fee	-----	-----
8. Arts & Craft Fee	-----	-----
9. Registration fee	142660599	138611263
10. Syllabus fee	-----	-----
11. Other Fees	41099472	18332612
<b>Total (A)</b>	<b>269439158</b>	<b>202791002</b>
<b>Examinations</b>		
1. Admission Test Fee	-----	-----
2. Annual Examination Fee	564257945	812885165
3. Mark sheet, certificate Fee	28239228	17361725
4. Entrance Examination Fee	58748560	46651301
<b>Total (B)</b>	<b>651245733</b>	<b>876898191</b>
<b>Other Fees</b>		
1. Identity card Fee	-----	-----
2. Fine/Miscellaneous Fee	-----	-----
3. Medical Fee	-----	-----
4. Transportation Fee	-----	-----
5. Hotel Fee	-----	-----
<b>Total (C)</b>	<b>0</b>	<b>0</b>
<b>Sale of Publications</b>		
1. Sale of Admission forms	-----	-----
2. Sale of syllabus and Question Paper, etc.	-----	-----
3. Sale of prospectus including admission forms	33690	244740
<b>Total (D)</b>	<b>33690</b>	<b>244740</b>
<b>Other Academic Receipts</b>		
1. Registration fee for workshops, programmes	-----	-----
2. Registration fees (Academic Staff College)	-----	-----
<b>Total (E)</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL (A+B+C+D+E)</b>	<b>920718581</b>	<b>1079933933</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

**SCHEDULE 10- GRANTS/SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)**

Amount in ₹

Particulars	Govt. of India	Plan		Total Plan	Non Plan UGC		Total MG Grant	Current Year Total	Previous Year Total
		Plan	UGC Specific Schemes		capital Assets	Recurring/salary Grant			
Balance B/F		<b>5587750339</b>	<b>0</b>	5587750339	0	0	0	5587750339	5721197188
Add: Receipts during the year		285864306	0	285864306	321500000	5312400000	5633900000	5919764306	5318148724
<b>Total</b>		5873614645	0	5873614645	321500000	5312400000	5633900000	11507514645	11039345912
Less : Refund to UGC Balance		0	0	0	0	0	0	0	0
Less : Utilized for Capital expenditure (A)		55298928	0	55298928	30384385	79959314	110343699	165642627	182687686
<b>Balance</b>		5818315717	0	5818315717	291115615	5232440686	5523556301	11341872018	10856658226
<b>Less: utilized for Revenue Expenditure (B)</b>		<b>27507904</b>	<b>0</b>	<b>27507904</b>	5711817	5232440686	5238152503	5265660407	<b>5268907887</b>
<b>Balance C/F (C)</b>	-	<b>5790807813</b>	<b>0</b>	<b>5790807813</b>	<b>285403798</b>	<b>0</b>	<b>285403798</b>	<b>6076211611</b>	<b>5587750339</b>

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.

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**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

<b>SCHEDULE 11- INCOME FROM INVESTMENTS</b>	<b>Amount in ₹</b>			
	<b>Earmarked/Endowment Funds</b>		<b>Other Investments</b>	
	<b>Current Year</b>	<b>Previous Year</b>	<b>Current Year</b>	<b>Previous Year</b>
<b>1. Interest</b>				
a. On Government Securities	----	----	----	----
b. Other Bonds/Debentures	----	----	----	----
<b>2. Interest on Term Deposits</b>	436252689	400184996	52734780	38074029
<b>3. Income accrued but not due on Term Deposits/Interest bearing advances to employees.</b>	----	----	----	----
<b>4. Interest on Saving Bank Accounts</b>	8025623	5875732	----	----
<b>5. Others (Specify)</b>	----	----	----	----
<b>Total</b>	<b>444278312</b>	<b>406060728</b>	<b>52734780</b>	<b>38074029</b>
<b>Transferred to Earmarked/Endowment Funds</b>	<b>444278312</b>	<b>406060728</b>		

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.

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**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

<b>SCHEDULE 12 - INTEREST EARNED</b>	<b>Current Year</b>	<b>Amount in ₹ Previous Year</b>
<b>1. On Savings Accounts with scheduled banks</b>	57188754	2907044
<b>2. On Loans</b>		
a. Employee/Staff	-----	-----
b. Others	-----	-----
<b>3. On Debtors and Other Receivables</b>	-----	-----
<b>Total</b>	<b>57188754</b>	<b>2907044</b>

**UNIVERSITY OF DELHI**

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

**SCHEDULE 13 - OTHER INCOME**

	Amount in ₹	
	Current Year	Previous Year
<b>A. Income from Land &amp; Building</b>		
1. Rent from Building/Land etc.	3135068	3909655
2. License fee	21238721	9057198
3. Hire Charges of Auditorium/Playground/Convention Centre, etc.	-----	-----
4. Electricity charges recovered	-----	-----
5. Water charges recovered	-----	-----
<b>Total (A)</b>	<b>24373789</b>	<b>12966853</b>
<b>B. Sale of Institute's publications</b>		
<b>C. Income from holding events</b>		
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)	-----	-----
<b>Total (C)</b>		
<b>D. Others</b>		
1. Income from consultancy	-----	-----
2. RTI fee	110261	42932
3. Income from Royalty	-----	-----
4. DU recruitment	451351	5753000
5. Misc. receipts (Sale of tender form, waste paper, etc.)	1175700	1048814
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	51524801	27351104
9. Others (Specify)	5870414	20658584
<b>Total (D)</b>	<b>59132527</b>	<b>54854434</b>
<b>GRAND TOTAL (A+B+C+D)</b>	<b>83506316</b>	<b>67821287</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

**SCHEDULE 14- PRIOR PERIOD INCOME**

<b>Particulars</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
1. Academic Receipts	-----	-----
2. Income from Investments	-----	-----
3. Interest earned	-----	-----
4. Other Income	-----	-----
<b>Total</b>	-----	-----

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

**SCHEDULE - 15 STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)**

Amount in ₹

<u>Particulars</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	-----	1665314377	1665314377	2491765	1371974516	1374466281
Non-Teaching staff	6294106	1077805581	1084099687	4634617	1217629147	1222263764
Lower Subordinate staff	352305	240175343	240527648	-----	241914911	241914911
b) Allowances and Bonus	-----	-----	0	-----	-----	0
c) Contribution to Provident Fund	-----	6442384	6442384	-----	3399921	3399921
d) Contribution to other funds (specify)	-----	-----	0	-----	-----	0
e) Staff Welfare Expenses (Liveries)	-----	1001789	1001789	-----	739484	739484
f) Retirement and Terminal Benefits	-----	3406519947	3406519947	-----	2045419564	2045419564
g) LTC facility	13942	59922709	59936651	-----	39823840	39823840
h) Medical facility	10913	155566493	155577406	-----	151888149	151888149
i) Children Education Allowance	-----	9922635	9922635	227107	12032239	12259346
j) Honorarium	-----	52076684	52076684	346500	114970607	115317107
k) Others	-----	-----	0	-----	-----	0
<b>Total</b>	<b>6671266</b>	<b>6674747942</b>	<b>6681419208</b>	<b>7699989</b>	<b>5199792378</b>	<b>5207492367</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

**SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFIT**

					Amount in ₹
	Pension	Gratuity	Leave Encashment	Total	Previous year
Opening Balance as on 01.04.18	17828303630	1246794419	873230725	19948328774	19159102113
Addition : Capitalized value of Contributions Received from other Organizations	11819546	2474989	1341689	15636224	31170507
<b>Total (a)</b>	<b>17840123176</b>	<b>1249269408</b>	<b>874572414</b>	<b>19963964998</b>	<b>19190272620</b>
Less: Actual Payment during the Year (b)	1191952434	107280386	80804672	1380037492	1239233194
Balance Available on 31.03.19 c (a-b)	16648170742	1141989022	793767742	18583927506	17951039426
Provision required on 31.03.19 as per Actuarial Valuation (d)	19335915063	1371782081	1211502217	21919199361	19948328774
A. Provision to be made in the Current year (d-c)	2687744321	229793059	417734475	3335271855	1997289348
B. Contribution to New Pension Scheme	----	----	----	70690760	47410216
C. Medical Reimbursement to Retired Employees	----	----	----	----	----
D. Travel to Hometown on Retirement	----	----	----	----	----
E. Deposit Linked Insurance Payment	----	----	----	557332	720000
<b>TOTAL (A+B+C+D+E)</b>	<b>2687744321</b>	<b>229793059</b>	<b>417734475</b>	<b>3406519947</b>	<b>2045419564</b>

**Note:**

1. The total (A+B+C+D+E) in this sub schedule will be the figure against Retirement and Terminal Benefits in Schedule 15.
2. Items B,C,D&E will be accounted on accrual basis and will include bills preferred but outstanding for payment on 31/3/19



**UNIVERSITY OF DELHI**

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

Amount in ₹

<b>SCHEDULE 16 - ACADEMIC EXPENSES</b>	<b>Current Year</b>			<b>Previous Year</b>		
	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>
a) Laboratory Expenses	3844130	17883545	21727675	2998402	17659833	20658235
b) Field work/Participation in Conferences	471501	0	471501	1188760	627344	1816104
c) Expenses on Seminars/Workshops	5220817	4661335	9882152	2426947	5754422	8181369
d) Award and Scholarships	775503	78787818	79563321	39614484	45263028	84877512
e) Registration charges of institution of Eminence	-----	-----	0	-----	10000000	10000000
d) Payment to visiting faculty	807516	-----	807516	659816	38290	698106
e) Examination	4525	427707947	427712472	-----	394012058	394012058
f) Refund of Fees	-----	3394239	3394239	-----	1088947	1088947
g) Entrance Exam	-----	17868042	17868042	-----	42940437	42940437
f) Student Welfare Expenses	-----	-----	0	-----	-----	0
g) Admission Expenses	-----	-----	0	-----	-----	0
h) Convocation Expenses	-----	-----	0	-----	-----	0
i) Publications	46668	414966	461634	318778	319985	638763
j) Stipend/means-cum-merit scholarship	-----	229731	229731	-----	423886	423886
k) Subscription Expenses	-----	-----	0	-----	-----	0
l) Others (specify)	-----	-----	0	-----	-----	0
<b>TOTAL</b>	<b>11170660</b>	<b>550947623</b>	<b>562118283</b>	<b>47207187</b>	<b>518128230</b>	<b>565335417</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

<b>SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES</b>	<b>Current Year</b>			<b>Amount in ₹</b>		
	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>
<b>A Infrastructure</b>						
a) Electricity and Power	----	278513967	278513967	----	272639105	272639105
b) Water charges	----	39352754	39352754	----	69810200	69810200
c) Insurance	----	----	0	----	----	0
d) Rent, Rates and Taxes (including property tax)	----	49119817	49119817	79632	48479683	48559315
<b>B) Communication</b>	----	----				
e) Postage and Telephone	27	5563631	5563658	300	7392485	7392785
f) Telephone, Fax and Internet Charges	----	----	0	----	----	0
g) Connectivity Expenses	29500	78108511	78138011	----	79682177	79682177
<b>C) Others</b>	----	----				
h) Printing and Stationery (consumption)	873651	41603929	42477580	980687	16932575	17913262
i) Travelling and Conveyance Expenses	2163807	8298998	10462805	5657385	6861559	12518944
j) Hospitality	337381	----	337381	725779	----	725779
k) Auditors Remuneration	----	----	0	----	----	0
l) Legal & Professional Charges	----	9104699	9104699	----	9864021	9864021
m) Advertisement and Publicity	----	127140	127140	----	3206557	3206557
n) Magazines & Journals	57000	55657707	55714707	----	68596187	68596187
o) Watch & Ward Expenses	----	89426950	89426950	----	118539386	118539386
p) House Keeping Expenses	----	107227171	107227171	----	76520732	76520732
q) Games & Sports	----	8225305	8225305	----	8894746	8894746
r) Medical Expenses	----	96926926	96926926		42641036	42641036
s) Others/Contingency	1395440	36734434	38129874	739634	22370982	23110616
<b>TOTAL</b>	<b>4856806</b>	<b>903991939</b>	<b>908848745</b>	<b>8183417</b>	<b>852431431</b>	<b>860614848</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

Amount in ₹

<b>SCHEDULE - 18 TRANSPORTATION EXPENSES</b>	<b>Current Year</b>			<b>Previous Year</b>		
	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>
1 Vehicles (owned by institution)	----	----	0	----	----	0
a) Running expenses	----	,----	0	----	----	0
b) Repairs & maintenance	----	----	0	----	----	0
c) Insurance expenses	----	----	0	----	----	0
2 Vehicles taken on rent/lease	----	----	0	----	----	0
a) Rent/lease expenses	----	----	0	----	----	0
3 Vehicle (Taxi) hiring expenses	10080	----	10080	33283	1369326	1402609
<b>Total</b>	<b>10080</b>	<b>0</b>	<b>10080</b>	<b>33283</b>	<b>1369326</b>	<b>1402609</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

Amount in ₹

<b>SCHEDULE - 19 REPAIRS &amp; MAINTENANCE</b>	<b>Current Year</b>			<b>Previous Year</b>		
	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>
a) Buildings	----	166799115	166799115	----	123572932	123572932
b) Furniture & Fixtures	----	8836462	8836462	48540	4831969	4880509
c) Plant & Machinery	----	1072562	1072562	16166	1087548	1103714
d) Office Equipment	2016712	4586700	6603412	2956347	6384473	9340820
e) Computers	330288	5239421	5569709	415354	5895341	6310695
f) Laboratory & Scientific equipment	----	1206911	1206911	----	969496	969496
g) Audio Visual equipment	----	----	0	----	----	0
h) Cleaning Material & services	----	----	0	----	----	0
i) Book binding charges	----	----	0	----	----	0
j) Gardening	----	8794016	8794016	5450	7561940	7567390
k) Estate Maintenance	----	----	0	----	----	0
l) Vehicles	----	864025	864025	----	1970904	1970904
m) Others (Specify)	----	----	0	1551004	----	1551004
<b>Total</b>	<b>2347000</b>	<b>197399212</b>	<b>199746212</b>	<b>4992861</b>	<b>152274603</b>	<b>157267464</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

Amount in ₹

SCHEDULE - 20 FINANCE COSTS	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Bank charges	54299	101790	156089	363044	1,06,625	469669
b) Others (specify)	-----	-----	-----	-----	-----	-----
<b>Total</b>	<b>54299</b>	<b>101790</b>	<b>156089</b>	<b>363044</b>	<b>106625</b>	<b>469669</b>

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 31-03-2019**

<b>SCHEDULE - 21 Expenditure on Grants, Subsidies etc.</b>	<b>Amount in ₹</b>					
	<b>Plan</b>	<b>Current Year Non Plan</b>	<b>Total</b>	<b>Plan</b>	<b>Previous Year Non Plan</b>	<b>Total</b>
a) Provision for Bad and Doubtful Debts/Advances	-----	-----	-----	-----	-----	-----
b) Irrecoverable Balances Written-off	-----	-----	-----	-----	-----	-----
c) Grants/Subsidies to other institutions/organizations	2397793	143583013	145980806	209028830	127549571	336578401
d) Others (specify)	-----	-----	-----	-----	-----	-----
<b>Total</b>	<b>2397793</b>	<b>143583013</b>	<b>145980806</b>	<b>209028830</b>	<b>127549571</b>	<b>336578401</b>

Note:-

Other expenses shall be classified as writes - off, provisions, miscellaneous expenses, loss on sale of investments, loss of fixed assets and loss on sale of fixed assets etc. and disclosed accordingly.

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

**SCHEDULE 22: PRIOR PERIOD EXPENSES**

Amount in ₹

Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses	0	0	0	----	----	----
2 Academic expenses	----	----	0	----	----	----
3 Administrative expenses	----	----	0	----	----	----
4 Transportation expenses	----	----	0	----	----	----
5 Repairs & Maintenance	----	----	0	----	----	----
6 Other expenses	----	----	0	----	----	----
7. Depreciation related to prior period	0	1298098067	1298098067	0	0	0
<b>Total</b>	<b>0</b>	<b>1298098067</b>	<b>1298098067</b>	<b>0</b>	<b>0</b>	<b>0</b>

**UNIVERSITY OF DELHI**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2019**

Amount in ₹

Increase/Decrease in Stock	Current year	Previous year
<b>a.) Closing Stock</b>		-
Stationery	7236511	9362094
Drugs and Medicines	10235191	16531904
Liveries	-----	-----
Answer Sheet	5127131	-----
<b>Total (A)</b>	<b>22598833</b>	<b>25893998</b>
<b>b.) Less :Opening Stock</b>	25893998	31819874
<b>Total (B)</b>	<b>25893998</b>	<b>31819874</b>
<b>Net Increase/(Decrease) (A-B)</b>	<b>(3295165)</b>	<b>(5925876)</b>



**UNIVERSITY OF DELHI**

**SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH 2019**

**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 ` .One per asset.

3.1 Gifted / donated assets are valued at a nominal value at ` . 1/- (One) per asset.

3.2 Books received as gift are valued at a nominal value i.e., at ` . 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 Investment 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.

8.4 Director Advance RPA Scholarship Account No.-10043546397 (South Delhi Campus) is included for the first time in the Annual Accounts of the University and included in Schedule-2 Designated/Earmarked/Endowment Funds. The Account was opened pursuant to E.C. Resolution No. 179(9) dated 25.03.1989 to deposit the interest earned on the Fixed Deposit of Rs. 10,80,000/- deposited as One Time Rent Payment by the State Bank of India. The account is being utilized to pay Fellowship to the Students.

## **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 31<sup>st</sup> 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 31<sup>ST</sup> MARCH, 2019

#### 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-Judice in the Hon'ble Court.

##### **2 Capital Commitments (Capital Works in Progress)**

Capital Works in Progress includes the amount paid by University till 31<sup>st</sup> March 2019 towards construction of the following Projects

- I. Other Projects from Plan & Earmarked/ Endowment Fund `12,28,72,429/-

During the year, Capital Work in Progress to the tune of Rs. 3942953448/- in respect of project which has been completed and handed over to the University (CWG Rs. 3111850653/-, Rajiv Gandhi Girls Hostel Rs. 747281869/- and "D" Type flats at Dhaka Rs. 83820926/-) 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 (Included building amount transfer from "work in progress" Rs. 682672498/-) Rs. **737971426/-** Non Plan, Funds (Recurring) Rs. **79959314/-**, (Capital Assets) Rs. **30384385/-** and Earmarked/Endowment Fund (Included building amount transfer from "Work in Progress" Rs 3260280950/-) Rs **3280031368/-** Sponsored Projects closed **14486860/-** and Library Books and other assets of the value of Rs **785/-** (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 31<sup>st</sup> 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 upto 31<sup>st</sup> 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 31<sup>st</sup> March 2019 and the Income & Expenditure Account for the year ended 31<sup>st</sup> Mar 2019

**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 2018-19 have been attached, to the University's Accounts.

**12 Salaries:**

The expenditure on salary is for the period from March 2018 to February 2019. No provision is made towards salary for the month of March 2019.

**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, 2019**

RECEIPTS		Current Year	Previous Year	PAYMENTS		Current Year	Previous Year
						Amount in ₹	
<b>I. Opening Balances</b>				<b>I. Expenses</b>			
a) Cash Balances		----	----	a) Establishment Expenses	4710548621	4418265705	
b) Bank Balances				b) Academic Expenses	561954538	565335417	
i. In Current Accounts	66031191	65626464		c) Administrative Expenses	894045727	853301118	
ii. In Saving Accounts	891760948	1228784221		d) Transportation Expenses	10080	1402609	
iii. In Deposit Accounts	11082529870	10123882586		e) Repairs & Maintenance	180040236	157267464	
c) Permanent Advance	922600	943500		f) Finance costs	156089	469669	
<b>II. Grants Received</b>				g) Expenditure on Grant	145980806	336578401	
a) From Government of India		----	----	h) Prior Period Items	----	----	
b) From State Government		----	----				
c) From UGC				<b>II. Payments against Earmarked/ Endowment Funds</b>	388749530	399813660	
i) Grant for Capital Expenditure-Non Plan	110343699		----				
ii) Grant for Revenue Expenditure-Non Plan	5523556301	5633900000	5057298000	<b>III. Payments against Sponsored Projects/Schemes</b>	630046448	550570609	
d) From other sources (details)							
<b>III. Academic Receipts</b>				<b>IV. Payments against Sponsored / Fellowships/Scholarships</b>	95398221	90093724	
a) Fees and Subscriptions	920684892	1079689193					
b) Sale of Publications	33690	244740		<b>V. Payments against Plan Accounts</b>	----	----	
<b>IV. Receipts against Earmarked/Endowment Funds</b>	832598434	927543075		<b>VI. Investments and Deposits made</b>			
<b>V. Receipts against Sponsored Projects/Schemes</b>	687285490	582212537		a) Out of Earmarked/Endowment Funds	----	635100000	
<b>VI. Receipts against Plan</b>	35944405	37029625		b) Out of own funds (Investments - Others)	----	----	
<b>VII. Receipts against Sponsored Fellowships and Scholarships</b>	80304722	137431420		<b>VII. Term Deposits with Scheduled Banks</b>	----	----	
				<b>VIII. Expenditure on Fixed Assets and Capital Work - In - Progress</b>	----	----	
				a) Fixed Assets	176812980	193607434	
				b) Capital Works - In - Progress	0	0	
				<b>IX. Other Payments including statutory payments</b>			
				Other body transaction	121871867	15966727	



<b>VIII. Income on Investments From</b>			<b>X. Refunds of Grants</b>	----	----
a) Earmarked/Endowment Funds	431669302	427321925			
b) Plan Accounts	203020846	226236751	<b>XI. Deposits and Advances</b>		
c) Sponsored Projects	90951125	116182720	a) Festival Advance	70762	12500809
d) Sponsored Fellowship & Scholarship	5691539	6071230	b) Advances	----	----
<b>IX. Interest received on</b>			c) Permanent Advance	----	----
a) Bank Deposits	51143555	40172529	d) Medical Advance	0	----
b) Loans and Advances	----	----	e) LTC Advance	7974556	9260915
c) Savings Bank Accounts	57188754	2907044	f) Remittances	1961357	----
<b>X. Investments encashed</b>	----	----	<b>XII. Other Payments</b>	2088801180	----
<b>XI. Term Deposits with Scheduled Banks encashed</b>	----	----	<b>XIII. Closing Balances</b>		
<b>XII. Other Income (including Prior Period Items)</b>	76037082	66129293	a) Cash in hand	----	----
<b>XIII. Deposits and Advances</b>			b) Bank Balances		
a) Festival Advance	736612	12701449	- In Current Accounts	102222076	66031191
b) LTC Advance	13308426	----	- In Savings Accounts	1221087686	891760948
c) Medical Advance	0	53000	- In Deposits Accounts	12388074281	11082529870
d) Permanent Advance	0	----	c) Permanent Advance	937600	922600
e) Advances	95453566	87528256			
f) Remittances	----	4672176			
g) Advance out of Sponsored Projects, Plan, & Earmarked Fund	290782766	----			
<b>XIV. Miscellaneous Receipts including Statutory Receipts</b>	120094100	39016709			
<b>XV. Any Other Receipts</b>	2048670726	11100427			
<b>TOTAL</b>	<b>23716744641</b>	<b>20280778870</b>	<b>TOTAL</b>	<b>23716744641</b>	<b>20280778870</b>

**UNIVERSITY OF DELHI**  
**PROVIDENT FUND ACCOUNT**  
**BALANCE SHEET AS ON 31st MARCH 2019**

		(Amount/Rs.)					
Previous Year 31.03.18	Liabilities	Current Year 31.03.19	Previous Year 31.03.18	Assets	Current Year 31.03.19	Current Year 31.03.19	
	<b><u>GPF</u></b>	-					
3490971612	Opening Balance	3718050214		2626990000	Investment (Bonds)		
481248991	Add: Subscriptions in the year	555083796			-- GPF	1343000000	
268576530 (522501493) (245426)	Add: Interest Credited Less: Advance/Withdrawal Less: Adjustment relating to Previous yr.	287912546 (570011685) (545)			-- CPF	1283990000	
3718050214	Closing Balance		3991034326	1770000000	Deposits Accounts (FD)		
	<b><u>CPF</u></b>	-			-- GPF	1332300000	
630616105	Opening Balance	614883516		155787703	-- CPF	829694717	
41381377	Add: Subscriptions & Contribution repayment of advance in the year	58210366			Interest Accrued as on 31.03.2019		
42060633 (99174494) (105)	Add: Interest Credited Less: Advance/Withdrawal/Final settlement Less: Adjustment related to Previous Year	40615088 (96122478) (1336834)		62286851	Bank Balances with SBI Bank in Saving Accounts :-		
614883516	Closing Balance		616249658	86188226	--GPF A/c No.10851298435	88359659	
	<b><u>Interest Reserve</u></b>	-			--CPF A/c No.10851298457	21603430	
330002324 38316726	Opening Balance Add: Excess of Income over Expenditure	368319050 62528567					
368319050	Closing Balance		430847617			109963089	
<b>4701252780</b>	<b>TOTAL</b>		<b>5038131601</b>	<b>4701252780</b>		<b>5038131601</b>	

**UNIVERSITY OF DELHI**  
**PROVIDENT FUND ACCOUNT**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2019**

(Amount /  
Rs.)

Previous Year 31.03.18	Expenditure	Current Year 31.03.19	Previous Year 31.03.18	Income	Current Year 31.03.19
	<b>Interest Credited to:</b>		294099093	Interest earned on Investment & SB A/c	408178329
268576530	GPF Account	287912546	122884777	Add: Interest accrued during the year 2018-19	106280869
42060633	CPF Account	40615088	245531	Add: Adjustment related to previous year (GPF A/c 545 + CPF A/c 1336834)	1337379
4328	Bank Charges (GPF A/c 3528 + CPF A/c 507)	4035	(68271184)	Less Interest accrued for the year 2017-18, but realized during the year 2018-19	(122884777)
	TDS deducted :				
	-- CPF	426958			
	-- GPF	1424606			
38316726	Excess of Income over Expenditure	62528567			
<b>348958217</b>	<b>Total</b>	<b>392911800</b>	<b>348958217</b>	<b>Total</b>	<b>392911800</b>

**UNIVERSITY OF DELHI**  
**PROVIDENT FUND ACCOUNT**  
**RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2018-19**

Receipts	(Amount / Rs.)	Payments	(Amount / Rs.)
Opening Balance as on 01/04/18			
GPF A/c No.10851298435	62286851	GPF Adv./Withdrawal/Final Settlement	570011685
CPF A/c No.10851298457	86188226	CPF Adv./Withdrawal/Final Settlement	96122478
GPF Subscription	555083796	Investment during the year (GPF 1332300000 + CPF 829694717)	2161994717
CPF Subscription & University Contribution	58210366	Bank Charges (GPF A/c 3528 + CPF A/c 507)	4035
		TDS deducted on Flexi FD Interest (GPF 156790 + CPF 75554)	232344
		TDS deducted by SBI on FD Interest (GPF 1267816 + CPF 351404)	1619220
		Closing Balances:	
Investment Encashed (GPF 1136300000 + CPF 633700000)	1770000000	GPF A/c No.10851298435	88359659
Interest Received (GPF 238428831 + CPF 169749498)	408178329	CPF A/c No.10851298457	21603430
<b>TOTAL</b>	<b>2939947568</b>	<b>TOTAL</b>	<b>2939947568</b>

**UNIVERSITY OF DELHI**  
**NPS TIER-I ACCOUNT**  
**BALANCE SHEET AS AT 31st MARCH 2019**

Amount 31.03.18		Liabilities		Amount 31.03.19	Amount 31.03.18	Assets	Amount 31.03.19
		<b><u>NPS Tier-I Account :-</u></b>					
365981		Opening Balance	599785		2807000	Investment	3115000
93973576		Add: Sub + Uni. Contribution	137375588		57408	Interest accrued but not realized	77867
73612		Add: Excess Receipts (Remittance)	67996		421217	Balance at Bank Saving A/cs	4354707
-		Less: Pr. Excess Receipts (Remittance)	-				
-			(73612)				
-		Less: Amount transferred to NSDL	-				
<u>(93813384)</u>	599785		<u>(133514128)</u>	4455629			
		<b><u>Interest Reserve :-</u></b>					
2390667		Opening Balance	2685840				
<u>295173</u>	2685840	Add: Excess of Income over Exp.	<u>406105</u>	3091945			
<b>3285625</b>		<b>TOTAL</b>		<b>7547574</b>	<b>3285625</b>	<b>TOTAL</b>	<b>7547574</b>

(Amount  
/ Rs.)

**UNIVERSITY OF DELHI**  
**NPS TIER-I ACCOUNT**  
**INCOME & EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR 2018-19**

(Amount /  
Rs.)

Amount 31.03.18	Expenditure	Amount 31.03.19	Amount 31.03.18	Income	Amount 31.03.19
767	Bank Charges	856	295141	Interest received on investment (F.D. & Flexi A/c)	394772
295173	TDS deducted on Investment	8270			
	Excess of Income over Expenditure	406105	(56609)	Interest accrued for the year 2017-18 but realized during 2018-19	(57408)
			57408	Interest accrued but not realized	77867
<b>295940</b>	<b>TOTAL</b>	<b>415231</b>	<b>295940</b>	<b>TOTAL</b>	<b>415231</b>

**UNIVERSITY OF DELHI**

**NPS TIER-I ACCOUNT**

**RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2018-19**

<b>Amount 31.03.18</b>	<b>Receipts</b>	<b>Amount 31.03.19</b>	<b>Amount 31.03.18</b>	<b>Payments</b>	<b>Amount 31.03.19</b>
83039	Opening Balance as on 01/04/2018	421217	2807000	Investment	3115000
	<b><u>NPS Tier-I Account</u></b>				
93973576	Own Subscription & University Contribution	137375588	93813384	Withdrawal/Refund to NSDL	133514128
73612	Excess Receipts (Remittance)	67996	767	Bank Charges	856
270552	Interest Received on investment (NPS)	281526	-	TDS deducted on Investment	8270
24589	Interest on Saving Bank A/c	113246		Pr. Excess Remm paid	73612
2617000	Investment Encashed (F.D.)	2807000	421217	Closing balance as on 31.03.2019	4354707
<b>97042368</b>	<b>TOTAL</b>	<b>141066573</b>	<b>97042368</b>	<b>TOTAL</b>	<b>141066573</b>

**UNIVERSITY PRESS**

**BALANCE SHEET AS AT 31st MARCH 2019**

<b>FUNDS &amp; LIABILITIES</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
	<b>Rupees</b>	<b>Rupees</b>
1. <b>Capital</b>	33,81,931.00	87,06,160.00
2. <b>Current Liabilities :</b>		
(a) Deduction from Salary Bills	12,41,869.00	11,99,974.00
(b) Bills Payable	-	29,42,246.00
3. <b>Loan &amp; Advance :</b>		
(a) Advance for work to be done	1,30,000.00	1,30,000.00
(b) Inter Bank Transfer	1,73,95,492.00	1,73,95,492.00
(c) Other Liabilities	10,162.00	10,050.00
(d) Earnest Money	53,500.00	53,500.00
<b>TOTAL</b>	<b>2,22,12,954.00</b>	<b>3,04,37,422.00</b>

<b>ASSETS</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
	<b>Rupees</b>	<b>Rupees</b>
1. Machinery, Furniture & Equipments	1,61,588.00	2,03,977.00
2. Amount Receivable	2,05,28,126.00	2,24,33,386.00
3. <b>Stock In Hand</b>		
(a) Raw Material	12,89,027.00	13,83,462.00
(b) Finished Goods	-	45,978.00
4. Work in Progress	-	48,17,430.00
5. Cash in Bank	2,18,213.00	15,37,189.00
6. Permanent Assets	1,000.00	1,000.00
7. Advance Contingency	15,000.00	15,000.00
<b>TOTAL</b>	<b>2,22,12,954.00</b>	<b>3,04,37,422.00</b>



**UNIVERSITY PRESS**  
**PROFIT & LOSS ACCOUNT FOR THE YEAR 2018-2019**

Particulars	Current Year	Previous Year	Particulars	Current Year	Previous Year
1. <u>To Opening Stock :</u>			1. <u>Income :</u>		
(a) Raw Materials	13,83,462.00	6,14,900.00	(a) Income from Printing and Binding	98,96,508.00	1,43,01,450.00
(b) Finished Goods	45,978.00	20,640.00			
2. <u>To Work in Progress</u>	48,17,430.00	11,53,000.00	2. <u>By Closing Stock :</u>		
3. <u>To Pay and Allowances :</u>	31,89,321.00	65,98,380.00	(a) Raw Materials	12,89,027.00	13,83,462.00
(a) L.T.C.	51,872.00	40,363.00	(b) Finished Goods	-	45,978.00
(b) Tuition Fees	13,500.00	27,000.00			
(c) Bonus		-	3. <u>By Work in Progress</u>	-	48,17,430.00
(d) Medical Re-imburement	3,15,358.00	7,62,664.00			
4. <u>To Purchase of Raw Materials</u>	6,42,746.00	48,03,385.00	4. Loss	53,24,229.00	-
5. <u>To Misc.Contingent Exp.</u>	4,836.00	37,758.00			
6. <u>To Rate, Rent and Taxes</u>	1,369.00	9,425.00			
7. <u>To Work Done Through Outside Agency</u>	60,01,503.00	40,35,951.00			
8. <u>Depreciation :</u>					
(a) Machinery, Furniture & Equipment	42,389.00	54,246.00			
9. <u>Profit</u>	-	23,90,608.00			
<b>TOTAL</b>	<b>1,65,09,764.00</b>	<b>2,05,48,320.00</b>	<b>TOTAL</b>	<b>1,65,09,764.00</b>	<b>2,05,48,320.00</b>

**UNIVERSITY OF DELHI**  
 DELHI UNIVERSITY PRESS A/C NO. 10851295354  
**RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST MARCH, 2019**

*Amount in ₹*

<b>Receipts</b>	<b>Current Year</b>	<b>Previous Year</b>	<b>Payments</b>	<b>Current Year</b>	<b>Previous Year</b>
<b><u>I Opening Balance</u></b>			<b><u>I Expenses</u></b>		
Bank Balance	1537189	3770136	Establishment Expenses	3570051	7428407
Deposit in Bank	----	----			
<b><u>II Receipts from Printing &amp; Binding work</u></b>	11801768	12103022	<b><u>II Other Administrative Expenses</u></b>		
			Expenditure	9592588	6951623
<b><u>III Deductions\Recoveries</u></b>	1206346	3516406			
			Festival Advance	----	5400
Festival Advance	----	6300			
			Remittance	1164451	3476245
Earnest Money	----	3000			
			<b><u>III Closing Balance</u></b>		
			Bank Balance	218213	1537189
<b>Total</b>	<b>14545303</b>	<b>19398864</b>		<b>14545303</b>	<b>19398864</b>

**UNIVERSITY OF DELHI**  
**HALLS AND HOSTELS**  
**BALANCE SHEET AS AT 31st MARCH, 2019**

SOURCE OF FUNDS	Current Year	Previous Year
<b>COURPUS/CAPITAL FUND</b>	316409334	281063732
<b>DESIGNATED/EARMARKED/ENDOWMENT FUNDS</b>	48810145	46210352
<b>CURRENT LIABILITIES &amp; PROVISIONS</b>	19274316	16895694
<b>TOTAL</b>	<b>384493795</b>	<b>344169778</b>
<b>APPLICATION OF FUNDS</b>		
<b>Fixed Assets</b>		
Tangible Assets	18092779	20615957
Intangible Assets	9740	9331
Capital Works-In-Progress	0	0
<b>INVESTMENT FROM EARMARKED/ENDOWMENT FUNDS</b>		
Long Term	0	0
Short Term	12753269	11928551
<b>INVESTMENTS- OTHERS</b>	74581662	57443772
<b>CURRENT ASSETS</b>	267281021	239296149
<b>LOANS, ADVANCES &amp; DEPOSITS</b>	11829548	14930242
<b>MISCELLANEOUS EXPENDITURE</b>	(54224)	(54224)
<b>TOTAL</b>	<b>384493795</b>	<b>344169778</b>

**UNIVERSITY OF DELHI**  
**HALLS AND HOSTELS**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2019**

Particulars	Amount in ₹	
	Current Year	Previous Year
<b>(A) INCOME</b>		
Academic Receipts	58949398	55866961
Grants/Subsidies	141784977	126457557
Income From Investment	18956006	15297355
Interest Earned	1648722	1709805
Other Income	55933570	49624023
Prior Period Income	0	0
<b>Total (A)</b>	<b>277272673</b>	<b>248955701</b>
<b>(B) EXPENDITURE</b>		
Staff Payments & Benefits (Establishment Expenses)	158610939	137592475
Academic Expenses	0	0
Administrative and General Expenses	67732899	65838607
Transportation Expenses	531863	580876
Repair & Maintenance	9213593	8137143
Finance Costs	355650	147136
Depreciation	5199543	6362887
Other Expenses	0	0
Prior Period Expenses	0	0
<b>Total (B)</b>	<b>241644487</b>	<b>218659124</b>
<b>Excess of Income over Expenditure/ (Expenditure over Income) (A-B)</b>	<b>35628186</b>	<b>30296577</b>
<b>Balance being Surplus/(Deficit) carried to Capital Fund</b>	<b>35628186</b>	<b>30296577</b>

**UNIVERSITY OF DELHI**  
**HALLS AND HOSTELS**  
**RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31st MARCH 2019**

Amount in  
□

Receipt	Current Year	Previous Year	Payment	Current Year	Previous year
<b>I. Opening Balance</b>			<b>I. Expenses</b>		
- Cash in Hand	163129	143310	(a) Establishment Expenses	158161911	137473819
- Bank Balance	63404134	92897226	(b) Academic Expenses	0	3986207
- Imprest	336061	10240104	(c) Administrative Expenses	65676872	66146409
- Deposit Account	216175292	144407997	(d) Transportation Expenses	545863	607266
			(e) Repairs & Maintenance Expenses	9071187	7774884
II. Other Bank Balances/FDRs	3797750	0	II. (a) Payments against Earmarked Fund	19262108	14204725
III. Grants Received	141931663	126258771	(b) Payment against Projects	0	81213
IV. Academic Receipts	53247743	48747364	III. Investments and Deposits made	8545263	7705401
V. Receipts against Earmarked/Endowment Funds	22406384	20653594	IV. Expenditure on Fixed Assets & Capital work-in-Progress	2869336	2909339
VI. Interest Received	3774672	2409349	V. Finance Charges	85514	61587
VII. Income from Investments	22173313	18888258	VI. Deposits and Advances	6550019	8359184
VIII. Other Income	61165799	51530453	VII. Other Payments	7199895	3240562
IX. Deposits and Advances	1316120	2391290	<b>VIII. Closing Balances</b>		
X. Any Other Receipts	13830066	14061497	- Cash in Hand	71275	163129
			- Bank Balance	136690466	63404134
			- Imprest	414581	336061
			- Deposit Account	188550304	216175292
			- TDS on FDR's Interest	27532	0
<b>Total</b>	<b>603722126</b>	<b>532629213</b>	<b>Total</b>	<b>603722126</b>	<b>532629213</b>

